

# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

APRIL 15, 1958



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# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

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See Next Page.



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Spring Flower Shows .....	7
New York Show .....	7
Washington Show .....	9
Boston Show .....	112
Philadelphia Show .....	114
Cleveland Show .....	116
California Flower Show .....	119
Progress in Rose Black Spot Control .....	11
By Dr. E. W. Lyle .....	
Types of Tree Bark .....	12
By Clarence E. Lewis .....	
Test Container Stock for Mail Orders .....	14
By John P. Mahlstedt .....	
Container Growing Viewed in Tour of Eastern Nursery .....	16
By George G. Runge, Jr. .....	
Homeowners Can Be Better Customers .....	17
By J. E. Kivlin .....	
Good Trees for Shade and Functional Use .....	18
Reported by Kenneth Bradley .....	
Kalamazoo Group Shares in Garden Clinic Success .....	19
By Rowland M. Hunt .....	
Texans Hold First Landscape Seminar .....	48
By George Fisher .....	
Plant Notes Here and There .....	60
By C. W. Wood .....	
Container Growing Topic at Propagators' Meeting .....	72
Reported by Fred C. Galle .....	
California Directors Order Membership Poll on Hawaii Site .....	85
By Charles J. Burr .....	
Fire Ant Threat Told at Florida Pest-O-Rama .....	122



—Spring Drive .....	6	New Jersey Trade Rise .....	46
—Consumer Buying .....	6	Texas Landscape Meet .....	55
—Garden Shows .....	6	Stevenson Wins Trophy .....	58
—Industrial Jobs .....	6	Fifth Texas Tree Sale .....	58
European Horticulturists Visit .....		Penn State Course .....	68
Monrovia Nursery .....	18	Pennsylvania Course .....	70
Editorial .....	6	New York Nursery Fire .....	70
Coming Events .....	22	New Rosellini Rose .....	70
—Western Tree Chapter .....	22	Indianapolis Election .....	77
—National Rose Meeting .....	28	Propagating Carpinus .....	79
—Michigan Conference .....	28	Western Pennsylvania Meeting .....	80
—Louisiana Short Course .....	29	Fire Razes Nursery .....	86
—Mail-Order Group .....	29	California Association of .....	
—Pennsylvania Host .....	29	Nurserymen .....	88
—Virginians Shift Plans .....	29	—Inland Empire Chapter .....	88
—Southern Convention .....	30	—Kern County Chapter .....	88
—Annual Texas Meeting .....	30	—Redwood Empire Chapter .....	88
—Nut Growers' Dates .....	30	—Tri-County Chapter .....	89
Mum Group Elects .....	32	—Centinela Directors .....	90
Install New Officers .....	32	—Plant California .....	91
Cover Illustration .....	34	California Arborists .....	91
—Liriodendron Tulipifera .....		New Meadows Bros. Firm .....	92
Fastigiatum .....	34	Oregon Notes .....	92
Eastern Tree Officers .....	36	California Notes .....	93
This Business of Ours .....	38	Opens Dallas Center .....	120
—Sex in Trees, Shrubs .....	38	Free Garden Clinic .....	121
Amend Quarantine .....	42	Outstanding Farmer Award .....	145
Gardens in Containers .....	42	Missouri Campaign Renews City's .....	
Obituary .....	44	Trees .....	144
—Lester W. Needham .....	44	Form Landscape Group .....	146
—Elmer August Farley .....	44	Honored in South .....	146
—L. A. Reynolds .....	46		

## INDEX TO ADVERTISERS

Alay Corp.	113	Eagle Creek Nursery Co.	72	Magee, Thomas J.	114	S-W Supply Co.	121
Alawford Nursery	44	Edwards Laboratory	126	Main Bros. Box & Lumber Co.	135	Saffer, Al	130-142
Allen Co.	80	Elmer Roses	92	Maloney Bros. Nursery Co.	87	Scarff's Nursery, Inc.	39
Allenore Nursery	80	Evergreen Nursery Co.	76	Martin Co., Inc., Joseph F.	81	Schroth's Nursery	39
Allen's Nurseries & Seed House	70	Evergreen Nurseries	137	Mathews Nursery	68	Schumacher, F. W.	87
American Agricultural Chemical Co.	117			Maywood Rose Nursery	90	Select Nurseries, Inc.	90
American-Dutch Trading Corp.	123			McGill & Son, A. C.	90	Semmes Nurseries	84
American Landscape School	134	Fafard, Inc., Conrad	112	McHutchison & Co.	114	Shade's Nursery	52
Angelica Nurseries	42-46	Fairview Evergreen Nurseries	54	McLinch Greenhouse	56	Shenandoah Nurseries	147
Anthony Lake Nursery, Inc.	87	Fern Hawaii Co., Inc.	113	Menne-Pot, Inc.	111	Shepa Chemical Co.	57
Aquatrols Corp. of America	136	Fertilizer Co., Inc.	47	Merry Mfg. Co.	107	Sherman Nursery Co.	137
Armintrout's Evergreen Nursery	84	Filon Plastics Corp.	118	Middlevale Chemical Co.	119	Sherman Products, Inc.	77
Arp Nursery Co.	84	Fitchburg Engineering Corp.	110	Miller Nurseries, J. E.	52	Sherwood Nursery Co.	26-27
Arterburn Nursery, Paul	86	Flex-O-Trell Co.	110	Milton Nurseries, Inc.	92	Shore & Co., J.	174
Asplundh Chipper Co.	140	Flicking's Nursery	44	Mist O' Garden, Inc.	38-126	Skrubbe Mfg. Co.	144
Associated Bull Growers of Holland, Inc.	45	Flo-Flo Engineering Design	146	Mitsch Nursery	92	Skinner Irrigation Co.	139
Atkin's Sons, L.	111	Floral Gardens Nursery	64	Monarch Mfg. Works, Inc.	127	Smith & Son, Inc., Seymour	12
Atlanta Oak Flooring Co.	125	Flower Grower Magazine	128	Monrovia Nursery Co.	74-75	Smith Corp., W.T.	56
Augustine Ascending Elm Research Assoc.	66	Flowerdew Nursery	84	Moran, E. C.	68	Smith's Forest Tree Nursery	76
		Forest Nursery Co., Inc.	87	Morning Star Nursery	71	Sneed Nursery Co.	83
		Ford Motor Co.	82	Mount Arbor Nurseries	2	Sod-Master Corp.	125
		Foster Nursery Co., Inc.	82	Mount Hood Nursery	91	Soil & Plant Research, Inc.	139
				Murphy's Sons Co., R. H.	81	Somerset Rose Nursery, Inc.	57
				Murphy Forests, Inc.	24-25	Sound Screen Supplies, Inc.	133
				Myers, E. Normand	38	Split Rock Nurseries	54
Bagatelle Nursery	50	Garden Shop, Inc.	142			Sprayers & Nozzles Sales	134
Bailey Nurseries, J. V.	76	Gardner's Nurseries, Inc.	50	National Bundle Tyer Co.	132	Springfield Nursery	46-56
Ball, Inc., Geo. J.	145	Geiger Co., E. C.	120-145	National Ideal Co.	138	Standard Engineering Works	115
Barfield Mfg. Co.	137	Geigy Chemical Corp.	53	Natorp Co., W. A.	58	Stauffer Chemical Co.	34-109
Beardslee Nursery	58-62-64-73-81	Gilson Gardens	70	Nekoosa-Edwards Paper Co.	79	Stedman Nurseries, Inc.	39
Bentley's Hardy Plants	92	Glenhill Road Machinery Co.	138	Nepko Lake Nursery	79	Steele's Pansy Gardens, Inc.	86
Berryhill Nursery Co.	68	Glad St., Mary Nurseries Co.	87	New Amsterdam Import Co.	113	Stephens Nurseries	88
Blackwell Nurseries	82	Gold Leaf Nursery	84	New Jersey Farm Supply	127	Sterling Bag & Burlap Corp.	146
Bloomer Nursery, George F.	50	Gresham Mfg. Co., Howard C.	80	Newport Nursery Co.	127	Stratford Evergreen Tree Nursery	44
Boblink Nurseries, Inc.	38	Gresham's Nursery	80	Coop., Assn., Inc.	127	Stribling's Nurseries	88
Bolens Products Div.	115	Growers Exchange, Inc.	72	New York Bag & Burlap Co.	64	Summit Nurseries, Inc.	80
Bork Nursery	58	Growers Sign Service	131	Neumann Bros.	58	Suncrest Evergreen Nurseries	54
Bosley Nursery	62	Gulf Stream Nursery, Inc.	82	Nichols Wire & Aluminum Co.	32	Sunderland Pipe Shop	143
Boulevard Nurseries	54			Nick's Nursery	82	Supreme Electric Products Co.	114
Boyd Nursery Co.	67			Nursery Sales, Inc.	46	Sweeney, Krist & Dimm	143
Bridgeport Implement Works, Inc.	123	Haag Nurseries, R. L.	83	Nursery Specialty Products, Inc.	123	Swift & Co.	49
Brillion Iron Works, Inc.	22	Habitent Fence, Inc.	121				
Brookfield Gardens	57	Half Moon Mfg. & Trading Co.	138	Onarga Nursery Co.	76	Tankard Nurseries	84
Brouwer's Nurseries	46	Halpern Bros.	128	Oregon Bulb Farms	92	Tennessee Valley Nursery	86
Brown Bros. Co.	38	Heller Greenhouse Laboratories	134	Oregon Fescue Commission	124	Teufel, Alfred	91
Brown Deer Nurseries	76	Hemlock Hollow Nursery	52	Orr Co., J. A.	110-118	Texas Nursery Co.	86
Bryant's Nurseries	76	Herbst Bros. Seedsmen, Inc.	42	Orr & Son, Inc., T. G.	82	Thimpany Pulp & Paper Co.	37
Bull's Nurseries	57	Hess' Nurseries	42	Ozark Nursery Co.	84	Thuemling Produce	133
Buntings' Nurseries, Inc.	50	Hill Nursery Co., D.	148			Thuemling Produce	133
		Hillmenyer Nurseries	85			Thumling's Nursery	82
		Hobbs & Sons, Inc., C. M.	70			Tuckamoney Nursery	130
		Hoffco, Inc.	137			Turfgrass Farm	140
		Homestead Nurseries	91	Pacific Coast Nursery	91		
		Horsford, William Crosby	38	Pallack Bros. Nurseries, Inc.	54-55	Union Carbide Chemicals Co.	21
		Howard-Hickory Co.	82	Palmer & Son, J. R.	76	Union Products, Inc.	116-143
		Howard & Smith, Inc.	92	Panogen Co.	72		
		Howards of Hema	5	Paul's Nursery	79		
		Humphreys Landscape Service	84	Pearce Seed Co.	84	Vanderbrook Nurseries, Inc.	42
				Pedigreed Seed Co.	56	Van Speybroeck, Arthur	70
				Peelskill Nursery	48	Van Veen Nursery	90
				Perkins Bros.	64	Vaughan Seed Co.	63
				Peter & Co.	116	Verhalen Nursery	85
				Pertson & Dering	23	Verkade's Nurseries	85
				Plantabbs Corp.	114	Vermeulen & Son, Inc., John	51
				Plants Aide Products	126	Verona Gardens	70-87
				Plant Marvel Laboratories	40		
				Pikes Peak Nurseries	40		
				Plumfield Nurseries, Inc.	61		
				Portland Wholesale Nursery Co.	92		
				Possum Hollow Nurseries	46		
				Premier Peat Moss Corp.	145		
				Premier Southern Ticket Co., Inc.	124		
				Princeton Nurseries	54		
				Progressive Equipment Co.	132		

**Forms for the May 15 issue will close Friday, April 25.**

**Forms for the June 1 issue will close Friday, May 9.**

**Mail copy to arrive at Chicago by these dates—no later!**

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# AMERICAN NURSERYMAN

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## The Mirror of the Trade

### Editorial

#### SPRING DRIVE

An extraordinary winter failed to yield to spring when the calendar indicated its arrival March 20. Heavy snowstorms along the central and north Atlantic seaboard and a repetition of the cold waves that had caused discomfort and earlier damage to vegetation in the southern states unseasonably marked the latter part of the month of March. Nearly all sections of the country experienced some freakish severe weather during the winter recently past. In some areas, particularly the extreme south, the crop damage was considerable, and some injury was incurred by nursery stock—how much to be ascertained later.

Aside from the damage it caused, the continuation of the wintry aspects of weather delayed the opening of the gardening season in many places. With many more new homeowners as customers and a prospective supply of nursery stock larger than ever, the trade had hoped for a more favorable opening to their selling season, especially in the milder states. They still hope that kindly weather will favor their marketing season during the remainder of spring.

The garden centers and retail nursery salesyards in areas where the gardeners are delayed in beginning their spring purchases will find intensified selling the only answer to a short season. Particularly if summer weather comes upon their localities earlier than scheduled, they must initiate a spring selling drive that will stir their customers into activity quickly, so that the desired volume of stock may be moved during the spring selling season and sales may reach the totals anticipated.

Advertising and other means of selling should be examined early to see that they may be made as effective as possible and increased where necessary. To wait for the customers to come of their own accord may

lead to a disappointing conclusion to the season. According to his local winter experience and to the prevailing weather conditions, the retailer should study his spring merchandising schedule. A spring selling drive, if necessary, should not be delayed too long.

#### CONSUMER BUYING

One of the remarkable features of the current recession which wins so much attention in the newspapers and from the politicians is the fact that the most recent reports indicate that retail purchases are close to, if not even with, those at this time last year. Consumers seem to be spending with the same liberality as last year except in places where unemployment is especially heavy, as among the automobile workers in Detroit. The decline in production figures is among automobiles, in steel and in so-called heavy goods which are used more in the expansion of industrial productive capacity than in supplying consumers' needs. That retail sales should remain so high, in spite of the inclement winter weather in most places, seems the more extraordinary.

In most localities it is too early to say whether this freedom in buying has extended to the purchases of nursery products at retail. But if the public is generally in the frame of mind to buy, the spring season should be a good one for this industry, for homeowners were never so interested in planting their grounds and gardeners were never so enthusiastic in their activities.

#### GARDEN SHOWS

The renewed demonstration of the popularity of garden shows in the spring of this year indicates not only the interest of the public, but also the value of such events for the ideas and instruction they give. This fact is recognized by the nurserymen and others who exhibit, because their garden designs are more simple and practical than they used to be, when a colorful mass of flowering plants was relied upon to impress the public. Moreover, not only are the plants more carefully labeled, but the labels are placed more conspicuously, so that the visitors may see the composition of the planting without undue effort.

Such developments at the garden shows have given suggestions to a few nurserymen—but not many—

who have used an arrangement of plants in similar fashion in their salesyards. Instead of a display, or rather just a supply, of balled plants of one size and variety, one can exhibit an arrangement consisting of several different plants in the design of a doorside planting, a sidewalk corner planting, a garage screen or some other common aspect of the home grounds. The valuable space in the salesyard need not be used for storage when it can be used to make sales in this manner. A sale is made not of one balled plant, but of several, so that the homeowner can copy the planting on his premises or formulate something similar.

#### INDUSTRIAL JOBS

When one reviews the list of prize-winners of A. A. N. industrial landscape awards during the past year, one cannot fail to realize the present importance of this type of business to the industry, particularly when one recalls how few such jobs were when the A. A. N. first conceived this program and booklets were made available to the trade and to industrial firms by that organization and the landscape nurserymen to promote interest in such projects.

Of course, something is due to the current trend whereby manufacturing concerns and some other good-size corporations have moved their offices and factories to suburban areas or small towns. Everybody had become accustomed to the bleakness and barrenness of the brick walls of industrial buildings in our large cities. But though urban property values are generally high, they have not discouraged some companies remaining in city locations from planting their premises. Yet the largest number of industrial landscaping jobs are in the outskirts of cities or in suburban or smaller towns.

Aside from that trend, the program undertaken by the trade six years ago to show executives what could be done to beautify industrial premises, both for the aesthetic value of the project and the interest and good-will engendered among employees and the public, is a fertile one. There is still much to be done in this direction, for the projects in prospect are numerous.

LAIRD'S NURSERY, Bell, Calif., opened a new garden shop as it recently celebrated its 30th anniversary in business at the same location.



Over-all View of Greater Cleveland's Fifteenth Home and Flower Show, Planned with Early American Theme.

# Spring Flower Shows

## Nurserymen Mark Changing Trends and Needs in Gardens

**NORTHERN GARDENERS**, many with plant appetites whetted by early mail-order catalogues from nurserymen and seedsmen, turn to the big spring flower shows for more substantial satisfying of their anticipations. The horticultural interests have, in fact, gone far in making the major shows rewarding to those who attend. And in the vanguard of the show participants, nurserymen and landscape men have made consistent efforts to include displays that would educate planting tastes, reflect changing trends and needs in gardens, introduce new ideas and plants and accent quality of material and work. Their part in this season's flower and garden shows in the east, midwest and west is described here and on following pages.

### NEW YORK SHOW

The 41st International flower show, designed on the theme, "The World Is Your Garden," saluted the spring season with a welcome burst of color and atmosphere for a near-record number of professional and amateur garden and flower enthusiasts at the New York Coliseum, New York city, March 9 to 15.

This annual spring preview, cosponsored by the New York Florists' Club and the Horticultural Society of New York, attracted one of the largest opening-day crowds in its history, and officials of the show expressed enthusiasm over the total number of admissions for the 7-day event, which approached the record established in the early postwar years.

The show this year, truly international in theme and

flavor, was officially opened with a proclamation from the mayor's office announcing that the week of the show would be known as "Flower Show Week in New York." The site of the coliseum was designated as "Flower Show Square."

Lavish display gardens dominated the first floor of the massive Coliseum and were arranged on both sides of the main aisle. Veteran observers and participants in previous shows acclaimed the quality plant materials used and the construction of the major gardens, in addition to the displays and exhibits appealing to the average homeowner and week-end gardener.

### Large Garden Winner

In the large garden competition, Dalsimer, Inc., Cedarhurst, N. Y., and Landscape Associates, Brookville, N. Y., were awarded the International flower show trophy and the Betty Blossom trophy, awarded for the first time for the best example of landscape design, for a seashore garden, which featured a wide variety of plants—trees, shrubs, vines and sand binders—suitable for use in seashore areas. The garden featured a sunken terrace area surrounded on three sides by sand dunes, which were planted with material adaptable to such locations. A large pine on the right-hand side of a weathered wooden stairway that led to the terrace area was used for a focal point. The terrace wall was constructed with gray-toned field stone slabs and planted with a wide variety of flowering plants and shrubs.

Panfield Nurseries, Inc., Huntington, L. I., was given





Approach and entrance planting, a silver medal winner for the Cherry Hill Nurseries, West Newbury, Mass., at the New England flower show.

the Lambertus C. Bobbink memorial trophy for a semiformal terrace garden of spring-flowering plants. A circular pool and a fountain were placed in the center of the lawn area, with a bed of lavender and white tulips on the left centered by a flowering *Halesia tetraptera*. Beds of tulips in a graceful curve were in the foreground on the right of the pool, underplanted with clusters of candytuft. Three slate steps led to the terrace area, which was planted with white azaleas, dogwood and narrow and broad-leaved evergreens. A large specimen of *Juniperus virginiana* was used as a dramatic accent on the left of the steps leading to the terrace. The left-hand side of the garden was

planted with hemlock, andromedas and pink azaleas. A hedge of *Ilex crenata convexa* was used at the entrance to the garden.

#### Rose Garden

Jackson & Perkins Co., Newark, N. Y., was awarded the Charles H. Totty memorial trophy and the International flower show gold medal, for a semiformal rose garden. A raised weathered-brick terrace circled a sunken lawn area on the right, with a semicircular bed of red roses and three clumps of white birch planted in the grass mall, and a pedestal-type sundial at the left of the bed. The front of the lawn area was bordered with White Bouquet

roses. The terrace area featured grass paths, with tree roses used as accents and beds of roses planted along the edges. A stone statue was placed at the junction of the two grass paths, and a whitewashed plank fence, used as a background, was planted with climbers.

Brookside Nurseries, Darien, Conn., was awarded the Massachusetts Horticultural Society gold medal for an informal garden featuring primroses and other spring-flowering perennials, with a grass foreground and three large clumps of white birch to anchor the perennial plantings.

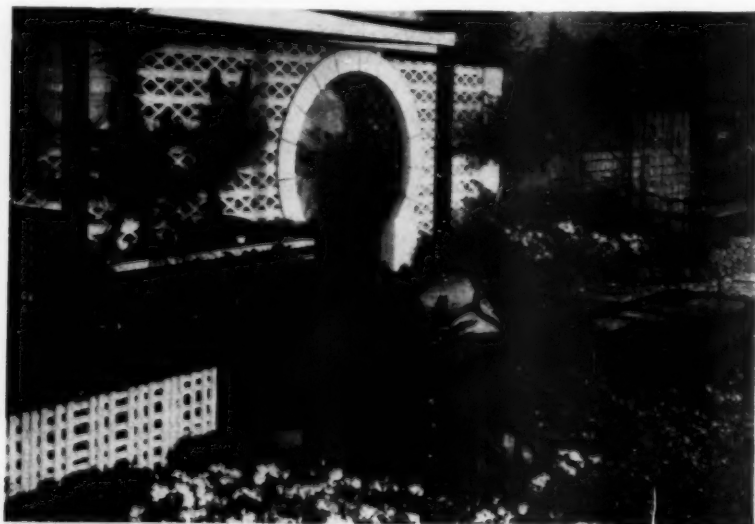
#### Suburban Planting

A low-budget, suburban "do-it-yourself" garden by Goldfarb's Arcadian Garden Nurseries, New York, received attention from suburbanites and small homeowners. The over-all garden design, which featured a terrace garden in combination with a children's play area, was cleverly tied in with the dining room, which overlooked the garden, by colorful indoor plantings of tropical foliage. Brown-toned rectangular slabs of varying sizes were used for the terrace, with a raised area on the right planted with seven flowering cherry trees. A rectangular pool, with a modern fountain, was in a far corner, backed by yellow-toned azaleas, rhododendrons and andromedas. The play area at the left of the design was backed by two flowering cherry trees, azaleas and broad-leaved evergreens.

Tow Path Nurseries, West Hartford, Conn., won the New York Florists' Club trophy for a natural woodland garden. A small path, in the natural setting that featured many native growing plant materials, led across a split log bridge to a small log herb-drying cabin, which was shadowed by a huge yellow pine tree. The area on the left of the cabin was planted with dogwood, mountain laurel, hemlock, azaleas and spring-flowering shrubs, with the foreground planted with ferns and columbines. A small natural pool in the front of the garden was fed by a running brook and planted with native swamp plants.

#### "Canary Island"

Madsen & Christensen, Flowers & Greenhouses, Wood-Ridge, N. J., designed a semiformal "Canary Island" terrace garden, with a kidney-shaped pool in the center of a lawn area. A reed fence was used as the background for plantings of palms, genistas and caladiums. A



Oriental garden and patio, with a mirror pool, arranged by Rosedale Nurseries, Monrovia, Calif., for the California show at Inglewood.

small gate was on the extreme right of the terrace area and was accented by a cluster of white callas.

A special award was given to Kennedy Nursery, Greenwich, Conn., for a 400 square foot informal spring garden designed around a pool. A sliced-log path partially circled the pool, and large specimens of mountain laurel were underplanted with daffodils, grape hyacinths, vincas and other shade-tolerant plants.

Earl Dilatush, holly specialist, of Robbinsville, N. J., was given a gold medal for a holly garden in a natural setting.

The Jane Parker division of the A. & P. food chain was given the National Landscape Nurserymen's Association trophy for a setting designed by Allen Dalsimer, which best exemplified the unity between industry and horticulture. The garden, formal in the Old Williamsburg tradition, featured a high red brick wall with a fountain which overlooked beds of cinerarias, white azaleas and pink and white hyacinths. Two flowering cherry trees were placed at each side of the foreground, and hemlock and podocarpus shrubs were used to front the brick wall. Entrance to the garden was through a white garden shelter, where the food chain's edible floral-decorated cakes were set on pedestals along the sides.

### WASHINGTON SHOW

A record number of winter-weary garden and flower enthusiasts from the middle Atlantic states area swarmed into the National Guard Armory at Washington, D. C., from March 6 to 12, to be greeted by the colorful spring panorama presented by the eighth annual flower and garden show.

Attendance for the show, which was officially opened by Mrs. John Eisenhower, daughter-in-law of President and Mrs. Dwight D. Eisenhower, surpassed last year's record total of over 125,000, according to the show's general chairman, Lewis H. Potter, Washington, D. C.

Focal point of the popular spring preview, designed by landscape architect Boris V. Timchenko, was once again the hourly performance of the world-famous "Dancing Waters" fountain at the far side of the huge area facing the main entrance. The sides and foreground of the fountain were planted by Louis Hahn & Son, Pittsburgh, Pa., with masses of white and pink azaleas and hydrangeas.

The gardens were arranged in a formal effect around two large rec-



California Mission garden, designed by Harold D. Stevenson, landscape architect, Rockland, Mass., for the spring flower show at Boston.

tangular pools in the center of the arena, with fountains and pools at each end. Huge specimens of *Cryptomeria japonica* were used as accent plants and underplanted with masses of pot plants vying for competitive awards. All competitive displays, rather than being isolated, were combined in masses for dramatic color effect and to form an integral part of the show's over-all design.

Theme of the show, "Bright Flowers," was portrayed and illustrated by 40 member exhibitors of the Allied Florists' Association of Greater Washington alongside the rectangular pools in the center of the arena. Each exhibitor was allotted a small booth to display an exhibit depicting a particular theme, season or occasion. Public interest in the show was unusually keen, with Armory guards

needed to keep pedestrian traffic moving during the run of the exhibition. Displays were maintained throughout the week so that they would be in prime condition.

Winner in the large garden competition was A. Gude Sons Co., Rockville, Md. Its delightful garden, which stressed white tones, featured a raised weathered-brick terrace that was fronted by an octagonal pool containing a weathered-stone statue. The terrace background was planted with flowering dogwood and masses of white azaleas. A formal bed of yellow tulips was at the right of the entrance against a hedge of upright taxus. Clusters of andromedas were used at each end of the pool, with *Cercis canadensis alba* trees planted at the corners.

J. H. Small & Sons, Washington,



Seashore garden, staged by Dalsimer, Inc., and Landscape Associates, Inc., Brookville, N. Y., winner of two major awards at the New York show.



A. Gude Sons Co., Rockville, Md., won the first prize in the large garden class at the Washington, D. C., show with this planting about a brick terrace.

D. C., were awarded second prize in the competition for an informal terrace garden. A curved path covered with shredded bark led to the terrace, which overlooked the lawn area. The terrace area was planted with white and pink azaleas, backed by holly and pine and birch trees. White and pink azaleas were used on the left of the lawn area, along with flowering dogwood and rhododendrons.

Third prize in the large garden category was given to Luis Hahn & Son, Pittsburgh, Pa., for a semiformal garden that had a kidney-shaped pool surrounded by a planting of ivy as a focal point. A flagstone path led to a stone bench overlooking the pool, with redbud, forsythia, willows and dogwood trees in the background. A small bed in the foreground was planted with white azaleas and pink rhododendrons and underplanted with ivy.

Wheaton Florist & Garden Center, Wheaton, Md., was judged best in the medium-size garden competition for a semiformal terrace scene. A small terrace area overlooked a grass mall, with small formal beds of low-growing light pink geraniums and ageratums at the edge of the mall area, with an *Ilex crenata* hedge. A flower border on the right was planted with ageratums, pink geraniums, small-leaved ivies and caladiums. Holly was used to frame the terraced bench area, with the rose variety Sterling Silver against a sapling fence on the extreme right-hand side.

Ridgeville Nurseries, Mount Airy, Md., was given third prize for a formal garden with a birdbath at one end of a rectangular lawn area and flowering trees for accent. Taxus was used for a border, with the foreground planted with deep pink azaleas; a hemlock tree was at each cor-

ner of the planting. Clusters of white daffodils framed the entrance.

#### Small Garden Competition

In the small garden competition, first prize was given to George Thrasher, Bailey Cross Roads, Va., for a semiformal raised terrace garden. The terrace was created with huge blocks of weathered wood and planted with *Ilex crenata*, deep pink camellias and pink azaleas. A wooden bench on the terrace was sheltered by a huge dogwood tree that also served as a focal point for the design. Two clusters of white hyacinths were used at each end of the terrace.

Campbell & Ferrara Nurseries, Alexandria, Va., were awarded second prize for a semiformal flagstone terrace garden that featured a small pool. Forsythias, pink and white azaleas and andromedas were used, with dogwood and flowering cherries planted as accents. Third prize

in the small garden competition was given to Silver Hill Flower & Garden Center, Silver Hill, Md., for a semiformal garden design using azaleas and other rhododendrons on the right of a lawn area, with the entrance accented by two hemlocks.

In the competition for first prize in camellia gardens, Hills' Camellia Gardens, Arlington, Va., were recipients of the award for a formal garden of weathered raised brick beds planted with pink, red and variegated varieties. Modern statuary, used for focal points at indentations in the raised brick beds, blended in well with the color tones of both the flowers and weathered brick. The Camellia Society of the Potomac Valley, Bethesda, Md., was given a second prize for a formal camellia garden in tones of red, pink and white.

#### Other Small Gardens

Royal Oak Farms, Marion, Va., were first-prize winners in the boxwood garden competition, with a weathered brick walk planted on both sides with huge specimen boxwood plants. The path led to an antique stagecoach.

Small gardens were also exhibited by Holly Hill Nurseries, Warrenton, Va.; Sunderlund Gardens, Washington, D. C.; Chambers Flower Center, Washington, D. C., and Cherryland Home & Garden Mart, Arlington, Va.

The Florida Nurserymen and Growers Association was given a special first-place award for a tropical garden designed on the theme "Way Station of the Barefoot Mailman." A tropical thatched hut was used as a focal point for extensive

[Continued on page 111]



Informal garden, winner of a gold medal and a first prize at Boston flower show for Breck's of Boston, featured Chinese crab apples, dogwood and azaleas.



# Progress in Rose Black Spot Control

By Dr. E. W. Lyle

Plant Pathologist, Texas Rose Research Foundation, Inc., Tyler, Tex.

Each year, many fungicides are originated and tested for the control of plant diseases. In 1957, the work of Texas Rose Research Foundation, Inc., at Tyler, in east Texas, included tests of several products that reacted well in combatting the foliage disease, black spot. The problem of black spot remains one of the main handicaps in rose growing in most of the United States and also through much of the rest of the world where fungicides are not used. The causal fungus is not only unsightly itself, but has a defoliating effect. Since black spot is associated with weather and particularly with rainy periods, it does greater harm in some years or some seasons than in others and is found distributed mainly in areas where the rainfall exceeds 15 to 20 inches a year. It is especially prevalent in warm climates if the rains are frequent all during the growing season.

In 1955 and again in 1956, black spot was nearly absent from the east Texas fields, where most of the commercial rose propagation in the United States is located. The experiments with fungicides developed into a comparison of effect on cercospora leaf spot, which ordinarily is a minor disease problem, and the evaluation of compatibility of the chemicals on the rose foliage. In addition, evidence was obtained about the flow of dust materials through dusters and the solubility and suspensibility in water of the spray compounds. Information also was gained about the spread and appearance on the foliage and whether the fungicides were easy to handle or not.

## Disease Outbreak in 1957

In the 1957 season, black spot again became prominent, and the use of fungicides was highly beneficial. From May 1 to October 1 there was a total of 21.48 inches of rain, with each month having the following amounts: May, 5.76; June, 7.51; July, 0.58; August, 2.34, and September, 5.29 inches. Some of the newer fungicides were found to give especially good control, and the results of these experiments may be of value to nurserymen and gardeners elsewhere.

A commercial field planting of about 7,000 bushes of the Floradora variety was selected because that variety is known to be highly sus-

ceptible to black spot. At the start of the season, the grower used the regular sulphur-copper dust fungicide over the entire field. The applications were with a tractor power duster. Six applications were completed from April 18 until June 1. Treatments were made within 24 hours after each rain, usually. Then, with hot weather anticipated, the special plots were arranged, and treatments with the test fungicides only were begun June 12. A total of 36 plots, each three rows wide and 35.5 feet long, gave four replications for each of the nine treatments. Twelve applications of the test fungicides were made from June 12 up to and including September 25, at a 7-day frequency as far as possible. The results are given in the table on this page.

Black spot was scarce and not observed in early June, but by June 27

taken in the same manner. In addition, records of the estimate of the percentage of leaflets infected with black spot and also the amount of foliage present September 24 were averaged for the four replicates and these data are presented, together with information on weights, in the accompanying table.

A total of 2,770 bushes was weighed—an average of 77 bushes weighed from each plot. Phaltan spray resulted in the heaviest bushes. It is a new material, closely related to captan, but said to be active against powdery mildew as well as black spot. However, in this experiment only black spot was a factor, powdery mildew not appearing even in the check plots. More tests are planned with Phaltan for possible variety and seasonal differences.

The records on foliage appearance on the one date gave an incomplete

Treatments (Floradora Variety)	September 24		December 10	
	Black Spot	Foliage Amount	Wt. per 10 Bushes	Increase Over Check
	%	%	Lbs.	%
Check (untreated after June 1) . . . . .	61	22	6.39	..
Phaltan (1 lb. to 50 gals. of water) . . . . .	5	92	9.70	52
Manzate-Thylate (.75 lb. to 50 gals., plus Du Pont Sp. St.) .	1	92	9.50	49
Manzate (.75 lb. to 50 gals., plus Du Pont Sp. St.) .	2	90	9.10	42
Manzate-Karathane (.75 lb. and .25 lb. to 50 gals., plus Triton)	2	90	8.88	39
Captan (3 lbs. to 50 gals., plus Triton B-1956 Sp.)	3	90	8.84	38
Sulphur-Copper (90%:10%) dust . . . . .	30	81	8.70	36
Captan (1 lb. to 50 gals., plus Triton B-1956 Sp.)	26	81	8.60	35
Maneb-Marlate (5.6%:10%) dust . . . . .	51	44	7.94	24

it became prevalent in the check plots, which were untreated after June 1. Spraying was done with a tractor unit having four nozzles per row and using 200 pounds' pressure; the acre rate for each application was about 120 gallons. Dusts were put on with a Niagara rotary hand gun at a rate of about 28 pounds per acre for each treatment.

December 10, at the end of the growing season, the bushes were dug for shipment and storage. At that time, the bushes from each plot, except those within about three feet bordering the next plot, were weighed and a record was taken.

This record gave good measure of the cumulative effect of the fungicides through the full season. Since the harvested bushes were tied in bundles of 10, the weight records were

picture of the results. For instance, the check plots had a considerable amount of new growth forming that probably was infected with black spot but was not showing it yet.

## Effect on Holding Foliage

Then, a factor not revealed in the weight of bushes was the lasting or residual effect of the various fungicides in keeping the foliage on the plants; in this respect, the order from best to poorest was Manzate-containing sprays, Phaltan spray, captan spray, sulphur-copper dust and maneb-marlate dust. Plots in which the foliage was retained the longest had the darkest green and purplish-colored bark; they also had the best root system, with the most fibrous roots. Furthermore, those

[Continued on page 82]

## Tips for Better Landscapes

# Types of Tree Bark

By Clarence E. Lewis

Department of Horticulture, Michigan State University, East Lansing, Mich.



Illustration A—Kentucky Coffee Tree  
(*Gymnocladus dioica*)

The barks of trees often present perplexing problems to persons who study them, particularly to those who have not been accustomed to seeing trees of different ages under varied growing conditions. The seacoast, with its salt spray and sand-blasting effect, may change the appearance of some species, giving the bark a lighter tone. Swampy conditions of consistently high humidity exert their influence, too, by causing the bark of some trees to be darker and possibly a bit greener, with a collection of algae, lichens and mosses.



Illustration C—American Hornbeam  
(*Carpinus caroliniana*)

The character and appearance of the bark will change as many as three or four times during the development of a young tree to maturity. Barks of most trees become thicker, rougher and coarser with age.

In the December 15, 1957, issue of the *American Nurseryman*, barks were illustrated and discussed. Barks are difficult to visualize from words, but by combining descriptions with illustrations, a more accurate picture can be formed. Trees that are well on their way to maturity are probably better subjects for study, since their bark characteristics are more consistent. Species of relatively the same diameter, however, may have slight variations of bark.

### Coffee Tree

Illustration A depicts a Kentucky coffee tree (*Gymnocladus dioica*) of a 10-inch diameter. Even when this tree develops to a greater diameter, the appearance is not so radically changed as it is in some trees. Young trees of the Kentucky coffee tree (two to three inches in diameter) have a somewhat roughened bark, which is not typical of other species of the same size.

The bark thickness may be as much as one inch. The surface is dark gray, sometimes tinged red or brown, and often has long, curved, smooth sections that contrast with roughened portions. These flat or thin-appearing smooth sections rare-



Illustration B—Common Hackberry  
(*Celtis occidentalis*)

ly run vertically, but seem to be arranged more or less diagonally across the trunk. Trees of greater diameters usually retain these curved sections of bark.

To a viewer standing at the base of a large Kentucky coffee tree and looking upward, the bark presents an over-all loose, gray to dark gray appearance. Even when the smaller branches are included in the view, the appearance is somewhat the same. The branches usually have a wandering or curved habit of growth that adds to the tree's picturesque



Illustration D—Hop-Hornbeam  
(*Ostrya virginiana*)



Illustration E—White Oak  
(*Quercus alba*)





Illustration F—White Oak  
(*Quercus Alba*)



Illustration G—Swamp White Oak  
(*Quercus Bicolor*)



Illustration H—Sugar Maple  
(*Acer Saccharum*)

appearance. Young branches of two or three years are thick as compared to those of maples, elms or other species.

The trunk of the hackberry (*Celtis occidentalis*), shown in illustration B, has a diameter of about 14 inches. This species often provides a striking contrast with surrounding trees. The bark is a grayish brown—more gray than brown—that is rather smooth and slightly scaly, but is roughened by irregular wartlike substances. Sometimes these warty growths appear as long, narrow ridges on larger branches.

Young trees have a rather smooth, light gray bark and, when seen from a distance, somewhat resemble the beech. The bark of older trees may be as thick as one and a half inches. It is much coarser, but the grayness persists in the upper part of the tree.

One of the most interesting barks of the woodland trees is that of the American or Carolina hornbeam (*Carpinus caroliniana*), shown in illustration C. This tree, bearing such other common names as blue beech, water beech, ironwood and smooth ironwood, might well be called musclewood because of its

light brown to gray, smooth, ridged bark. There is often a bluish tinge to this fluted bark. Older trees present not a round trunk, but an irregular one, because the rugged smooth ridges prevent any appearance of symmetry.

The bark is not so thick as that of many other trees. The tree shown in the illustration has a diameter of four inches, but when the Carolina hornbeam becomes 10 to 12 inches in diameter, the fluting or ridging seems to spiral around the tree rather than remaining vertical. All this adds to the interest of this bushy, small tree that should be used more in the landscape of the American home. The European hornbeam (*Carpinus betulus*) has a ridged bark, but it is a duller, darker gray, less ridged and somewhat rougher.

The other so-called ironwood (*Ostrya virginiana*), which may be seen in illustration D, in no way resembles the smooth ironwood and probably is better termed hop hornbeam or rough ironwood. It has also been called leverwood because of its use as a lever in lumbering operations. The bark is light brown to ash gray and is formed of long, narrow scales that give a shreddy effect, because of being loose on the lower ends.

These shreddy bark sections are fairly consistent in that they are of about the same width on the main trunk of each tree. The loose bark of the white oak, shown in illustration E, is somewhat similar, but is split into shorter sections and is not so ragged. The hop hornbeam has been a usable landscape tree for many years, but has only been seriously considered as such within the past 15 or 20 years.

The white oak (*Quercus alba*)

bark depicted in illustration E varies from that shown in illustration F. The trunk diameters are about the same (12 inches), but one appears greater than the other because the photographs were taken from different distances. White oaks may vary, as is illustrated by the two pictures, some having a relatively fine-textured bark, others having broader or coarser bark sections. The bark may be a light gray in some instances, while in others it will appear noticeably darker. Old trees may show a bark of flat ridges as thick as two inches.

The swamp white oak (*Quercus bicolor*), pictured in illustration G, has a loose, brown to gray bark that changes as the tree matures. The tree in the illustration is about four inches in diameter and has a loose, almost shaggy bark, while the white oak at the same age would not

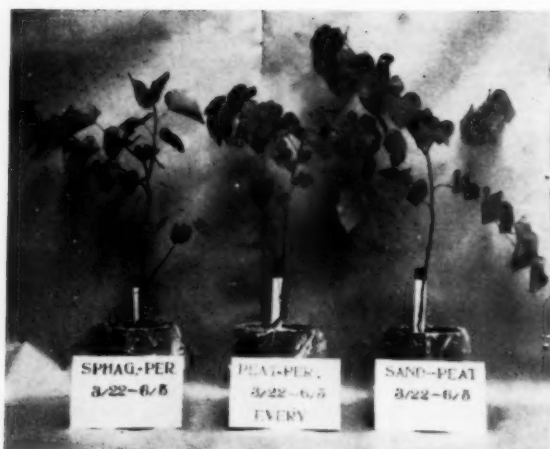
[Concluded on page 87]



Illustration I—Sugar Maple  
(*Acer Saccharum*)



Illustration J—Norway Maple  
(*Acer Platanoides*)



Growth made by redbud that was fertilized in connection with every watering between April 15 and June 1. Plants were potted March 22, 1957, and were photographed June 6.



Growth made by Forsythia intermedia spectabilis fertilized every watering between April 15 and June 1. Plants were potted March 22, 1957, and were photographed June 6.

## Test Container Stock for Mail Orders

### Lightweight Media, Polyethylene Packaging Used in Study

By John P. Mahlstede

Department of Horticulture, Iowa State College, Ames, Ia.

It is generally recognized that the west coast nursery industry has a head start on other areas in regard to the production of nursery stock in standard containers. This is reasonable, since the growers have had more experience with this type of culture and the climate is more uniform. Longer growing seasons, coupled with the elimination of the hazards of freezing rains, ice storms, heavy snows and sub-zero temperatures, have made the south a natural area for this type of production.

In general, the greater part of the experimental and practical work concerned with the production of ornamental plants in containers has made use of the heavier media and combinations thereof. The fact that there has been some controversy on the ability of plants grown in synthetic media to root out of the original medium when planted into heavy soils has discouraged growers

from experimenting with such media as sphagnum moss, perlite and vermiculite, singly and in combination with peat. Lightweight media also pose problems to the growers, not only in the maintenance of adequate nutrients, but also in the physical aspects of watering and keeping the plants from blowing over.

#### Status of Container Growing

Container production is here to stay. This is not to intimate that the production of nursery stock in the field is a thing of the past, but rather to point out that this relatively new method of growing plants will become an integrated part of nursery stock production. In certain ways it has an advantage over regular field culture, since nutrition, water and shade can be provided in proportion to the natural requirements of the particular type of stock being grown. In the northern part of the United States, the only factor which cannot be controlled without some effort is the cold. Economics, of course, place a limitation on the size of plants which ultimately can be grown in containers.

With increased wholesale production of container-grown ornamental plants, retail outlets are now displaying and selling nursery products the greater part of the growing season. No longer is the retail sales outlet limited to early spring and late fall sales. No longer is the landscape

nurseryman restricted to seasonal plantings or plantings which can only be done with balled and burlapped stock. People also are becoming familiar with container stock and are beginning to buy plants during the so-called off season.

Now that the container concept has developed and caught on, the time is ripe for the mail-order nurseryman to cash in on the movement. Needless to say, the mail-order nursery business is highly seasonal. Business is based on repeat sales and new sales on new additions to the mailing list. Special offers, as well as regular advertising in newspapers, magazines and on radio, help obtain these new customers. The mail-order nurseryman is looked upon as a leader in the ornamental plant field; his prices and new offerings are out and in the hands of his customers at the turn of the year; they cannot help setting the pattern of sales for the

Table 1—pH Readings of the Various Materials Used in the Potting Media.

Material	pH Reading		
	10 min.	30 min.	10 hrs.
Peat moss	6.0	6.0	6.1
Sphagnum moss	4.0	3.9	4.1
Perlite	8.4	8.4	8.2
(Old Des Moines)			
Perlite	7.2		
(New Des Moines)			
Perlite	7.5		
(Tennessee)			
Sand	8.7	8.8	8.5

Table 2—Weight Loss by Plant Material and Medium During the Holding and Transit Period (10 Days).

Packaging Treatment	Medium	
	Sphagnum-Perlite	Peat-Perlite
Box-Open-Poly		
Root Bag	5.5 ozs.	5.1 ozs.
Box-Wilt-Pruf		
Poly R. Bag	3.8 ozs.	5.0 ozs.
Box-Over-all P. B.		
Poly R. B.	1.6 ozs.	2.5 ozs.
Poly-Kraft		
Poly R. B.	3.2 ozs.	3.1 ozs.

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coming year. The parcel-post rate hikes have put the squeeze on the mail-order nursery business.

As a result, the shipper has had to concentrate on the production, storage and packaging of a quality plant product. He could not always offer so large a plant as he would like, but, nevertheless, the good mail-order nurseryman had to turn out a quality product, since replacements and rebates would eventually be felt in the terms of reduced sales. With nursery salesyards offering plants in full leaf early in the spring and fall, as well as throughout the growing season, a still further restricted sales period will be imposed on the mail-order nursery industry.

### Selling Plants in Leaf

To keep abreast of the competition offered by the sale of container-grown plants, it is conceivable that the mail-order nurseryman can economically grow and distribute the higher-priced and choicer plant materials as established plants, in full leaf. Not only would this spread sales over a longer period, but it would have a tendency to build up fall sales, since the planting of established stock would no longer entail the hazards often associated with bare-root stock planted late in the season.

Container culture would also permit the culture of plant materials not generally produced in areas because of soil pH restrictions. It has already been established, as in the case of perennials, that established plants generally perform better the first year than do bare-root plants. This does not imply that bare-root plants are of no value, but rather that there is less setback in the transition period between the nursery growing area and the customer's yard. There also are those types, which, regard-

**Table 3—Final Packaged Weight under Each Treatment and Cost of Shipment to Zone 2.**

Packaging Treatment	Final Packaged Weight Sphagnum- Perlite	Peat- Perlite	Average Cost of Shipment Sphagnum- Perlite	Peat- Perlite
Box, Tops Open-PRB . . . . .	4 lbs.	4 lbs. 6 ozs.	\$0.38	\$0.38
Box, Wilt-P.-PRB . . . . .	3 lbs. 15 ozs.	4 lbs. 5½ ozs.	.38	.39
Box, Poly Bag-PRB . . . . .	4 lbs. 1 oz.	4 lbs. 3 ozs.	.38½	.37
Poly-Kraft-PRB . . . . .	2 lbs. 4 ozs.	2 lbs. 10 ozs.	.29	.35

**Table 4—Canning Costs.\***

Item	Peat- Sand	Peat- Perlite	Sphagnum- Perlite
Cost of plants . . . . .	\$0.45	\$0.45	\$0.45
Cost of medium . . . . .	.0205	.0385	.0360
Poly liner . . . . .	.0220	.0220	.0220
Potting (labor)** . . . . .	.0166	.0208	.0249
Container . . . . .	.034	.034	.034
Totals . . . . .	.5431	.5653	.5669

\*Forsythia intermedia spectabilis, 18 to 24 inches.

\*\*Minimum without mechanization; calculated at \$1 per hour.

**Table 5—Cost of Packaging and Shipping Various Treatments.**

Packaging Materials	Peat-Perlite		Sphagnum-Perlite		Peat- Perlite Total	Sphagnum- Perlite Total
	Cost Pack	Cost Ship	Cost Pack	Cost Ship		
Box, tops open . . . . .	\$0.35	\$0.38	\$0.35	\$0.38	\$0.73	\$0.73
Box, Wilt-Pruf . . . . .	.377	.39	.377	.38	.767	.757
Box, Poly Bag . . . . .	.3872	.37	.3872	.385	.7572	.7722
Poly-Kraft, tops open . .	.0996	.35	.0996	.29	.4496	.3896

less of the method of growing, will give comparable performance in the hands of the customer. These are the Van Houtte spiraeas and privets of the plant world.

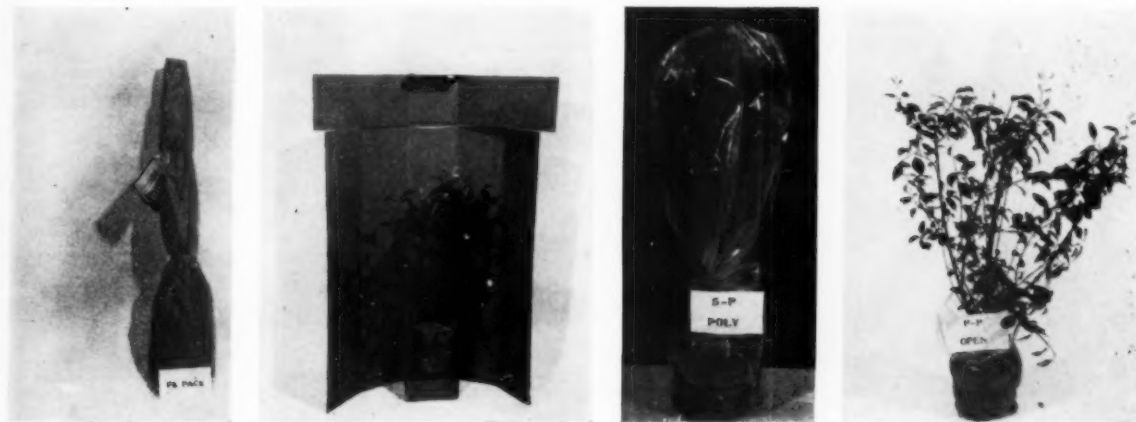
There are two distinct approaches to the production of nursery stock in containers. One encompasses the concept of placing a full-grown, bare-root plant in a pot early in the season and forcing it. The other approach is that of growing the plant from cutting or liner size to salable size in the original pot. For this particular study we shall limit the discussion to the operation of producing a salable plant from a cutting or heavy liner in a container.

If one were to scan the literature on potting media, he would soon dis-

cover that there exist almost as many different formulations as reports reviewed. This is understandable, since soil, facilities, labor, climate and plants being grown vary considerably from one section of the country to the other. Most growing media contain peat moss and a sandy loam soil. Pea gravel and bank sand are also important components which can be found in a number of reported growing mixes.

Probably the one potting medium which has been used most extensively is the so-called UC, or California mix. This medium is prepared by combining one-half yard of fine dune sand with one-half yard of sphagnum peat and a complete fertilizer mix-

[Continued on page 134]



Packaging tests: Left to right, No. 1, polyethylene-kraft paper substituted for outer box proved satisfactory for stiff-caned plants having relatively short growths. No. 2, shipping box, showing construction and plant orientation; No. 3, forsythia grown in a mixture of sphagnum and perlite, packaged and ready for placement in a box shipping container; No. 4, forsythia forced in a peat-perlite mixture ready for shipment with no foliage protection except the box.



# Container Growing Viewed in Tour Of Eastern Nursery

By George G. Runge, Jr.

A tour of Perkins-de Wilde Nurseries, Inc., Shiloh, N. J., was held March 5. Approximately 30 nurserymen, landscape men and others from Nassau county, New Jersey, participated.

Upon arrival, the party inspected the propagating houses. At the time, grafting of biotas was in progress. Many evergreen cuttings are propagated by the firm, including taxus, azaleas and junipers. The taxus and juniper varieties are rooted in plain sand, whereas the azaleas are rooted in a half-peat, half-sand combination.

Perkins-de Wilde Nurseries maintain a high-pressure mist system in the propagating houses. This system, which has proved highly effective, is run under a constant pressure of 200 or more pounds and, when turned on, saturates the air with a fine fog. Klaas de Wilde finds the high-pressure mist system exceed-

ingly effective in the propagation of many kinds of plants. Neither time devices nor an electronic leaf apparatus is utilized to check the humidity conditions in the greenhouse. Workmen plan to be in the houses three or four times a day to check the plant material's condition. Consequently, the plant propagator can turn the mist system on as conditions warrant.

Also inspected were the cold-frames, where newly canned stock, such as pyracantha and cotoneaster, are stored for the winter. In the spring, these plants are moved to a container stock growing area. Lath houses erected directly behind the propagating structures cover year-old cuttings that have been planted into 2¼-inch pots or lined out in beds until the following spring, when they are moved to the field or planted in containers.

After lunch, provided by the Per-

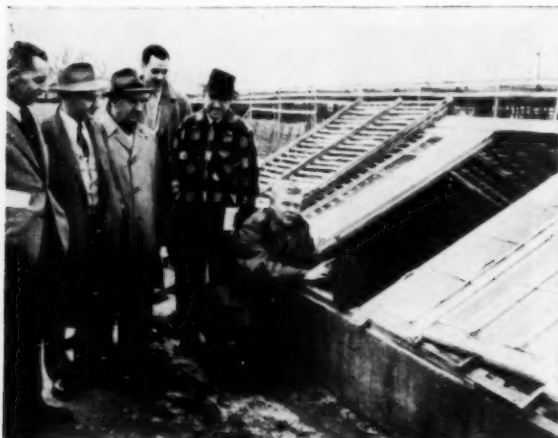


Nassau county (N. J.) nurserymen and others visiting Perkins-de Wilde Nurseries, Inc., Shiloh, N. J., inspect the container stock growing area beneath a natural stand of pine. Cotoneasters in the foreground are pushed close together and mulched with salt hay. In spring the hay is removed and plants are spread.

kins-de Wilde Nurseries, a bus took the group to the container-stock growing area, where plants are stored in the winter and grown in the summer. This naturally shaded area is an ideal location for the growing of container stock and azaleas. Numbers of pines, oaks and other trees provide the necessary shade. The area is also a storage place for special-grade evergreens.

The container-grown plants in this area as they were stored for the winter are pushed together and mulched with salt hay. This mulch is highly effective in preventing soil from freezing in subzero weather. In the spring, usually in March, the mulch is removed. Much of it, however, is left in the alleyways so workmen can walk on it without sinking into mud when moving irrigation pipe or performing other tasks. After the mulch is removed, the canned

[Continued on page 57]



Left, Robert de Wilde, kneeling, exhibits pyracanthas held in cold-storage frames to visiting group, left to right, Willet Titus, Paul Vossburg, James Savarese, Paul Murphy and George Buck. Right, Robert de Wilde, kneeling; Dave Buchan, Triangle Nurseries, background, and Anthony Iadevaia, Hicks Nurseries, foreground, examine Juniperus pfitzeriana plants grown in containers that are mulched with salt hay and pushed close for overwintering.

# Homeowners Can Be Better Customers

By J. E. Kivlin

A study of marketing of ornamental nursery plants was made by Pennsylvania State University as a part of a northeast regional project to facilitate the distribution of these products. Penn State's part in the over-all project was to investigate the consumer aspects of merchandising ornamentals as they affect both the homeowner and the nurseryman. The reason behind this emphasis on the consumer is that homeowners represent the major share of this market for trees and shrubs. Therefore, it seemed that what nurserymen could do to make better customers of homeowners would aid in maintaining sound growth within the nursery industry. Moreover, it seemed that any development of effective marketing methods by nurserymen required data reflecting the experiences and opinions of homeowners.

Data were obtained from a sample consisting of 640 home-owning families in the newer and older residential areas of towns and cities, the open country and farm areas of Pennsylvania. To insure that the information was from members of the family who were in a decision-making capacity, the study was limited to complete families which owned or were buying their own homes, and only husband and/or wife were included as respondents.

This study provides information on the appeals that motivate homeowners to make ornamental plantings, the obstacles to increased use of trees and shrubs and related information on opinions of homeowners concerning landscaping and marketing services of the nursery industry.

Complete information of the survey cannot be given in this report; however, most of it will be included in a report now being prepared for publication. This discussion will be concerned with information on homeowners' needs and desires. It is hoped this information will permit nurserymen to adjust their merchandising methods to serve homeowners better and make them better customers.

It is recognized that many nursery-

men regard themselves principally as growers. These probably are not interested in meeting or selling to the general public, but will want to concentrate on and perhaps expand their wholesale market for trees and shrubs. Nurserymen who wish to be successful as retailers, however, will undoubtedly want to consider the information of this study.

## Reasons for Landscaping

The important reasons why homeowners landscaped with trees and shrubs were: They beautify the property, are necessary to complete the home and add to the value of the property. The importance of these reasons to homeowners can hardly be called news. Most nurserymen are aware of the truth of these reasons. The real importance of these results to nurserymen, it is believed, is their confirmation and, especially, the clear evidence that these reasons are shared by consumers in widely different types of residential areas. Another important aspect of these reasons is that they are familiar to the homeowner. Nurserymen can use them with the knowledge that they are talking about something the homeowner knows and understands. Merchandising efforts utilizing these basic appeals can proceed with the assurance that most consumers believe that they are the important reasons for landscaping their home properties.

Appreciation of landscaping as a source of beauty and as a way to enhance the appearance of the home is shared by many homeowners. Seventy-nine per cent mentioned this reason when asked "What are the important reasons you give your friends as to why they should landscape their home grounds with trees and shrubs?" Many homeowners also said that their homes would be unfinished without trees and shrubs.

## Increase in Value

Of almost equal importance as beauty to homeowners is the increase in property value as a result of home landscaping. Most homeowners regard landscaping as a "profitable" investment. Homeowners were asked about their reasons for landscaping and for their opinions on the effect of landscaping on the value of their property. These opinions ranged from "no increase in value," to "10 or more times the amount spent for trees and shrubs." The important

point is that only 17 per cent said there was no increase in value, while 63 per cent estimated the increase in value to be from two to over 10 times the amount spent. For this latter group of homeowners, landscaping seemed a good buy.

Other reasons of intermediate importance to homeowners were that trees and shrubs provide shade, privacy and windbreaks and that homeowners like to work with them. About 40 per cent chose "Trees and shrubs provide shade" as one of the most important reasons for landscaping. Among farm residents this reason was more important than value added by trees and shrubs.

Privacy was chosen as one of the most important by 18 per cent of the sample. An interesting note here is that consumers wanted only selected privacy from their neighbors, and relatively few wanted their property divided from the neighbors' property. Many homeowners, particularly those in new housing developments, emphasized their desire to visit with their neighbors. The kind of privacy that homeowners wanted was a shielded patio or play area for outdoor cooking and games or visiting.

## Utility Reasons

Other utility reasons for landscaping, such as "for windbreaks" or "like to work with trees and shrubs," were chosen by a smaller percentage of homeowners. As with most of the other questions in this study, the per cent of respondents giving these reasons did not differ markedly among the different types of residential areas.

On the matter of prestige and conformity reasons for landscaping, less information was obtained, possibly because this is a sensitive area for most people and one in which it is difficult to elicit responses. Relatively few homeowners directly indicated that landscaping was important because it attracted attention or because other people in the neighborhood made plantings. Nevertheless, it is believed that these reasons are undoubtedly important in consumer consideration of landscape purchases. What this information seems to indicate is that efforts to tap these appeals must be subtle and indirect. It is likely that such efforts should be expressed in terms of home beautification and the role of trees and shrubs in completing the home.

[Continued on page 124]

An address, "Homeowners Can Be Better Customers," delivered in February at a nurserymen's conference held at Pennsylvania State University, University Park, by J. E. Kivlin, graduate assistant in agricultural economics at the university.



# Good Trees for Shade And Functional Use

*Reported by Kenneth Bradley*

At the Connecticut nurserymen's short course held January 22 and 23 at the University of Connecticut, Storrs, Jacob Gerling, superintendent of maintenance, parks and playgrounds, Rochester, N. Y., spoke the first evening on "Good Trees for Shade and Functional Use," emphasizing the advantages of using the right tree in the right place, both from a functional and a maintenance standpoint. The following morning, the same speaker talked on "Good Lawn Specimens and Shrubs."

Mr. Gerling paid tribute to his former supervisor, retired superintendent of the park department, Bernard H. "Barney" Slavin, who in his 50 years of devoted work made many notable contributions to horticulture. Many of the fine specimens shown in colored slides by Mr. Gerling are the result of Mr. Slavin's efforts in locating, propagating and eventually planting his specimens in Rochester's Durant-Eastman park. This park of about 400 acres was developed by Mr. Slavin from sandy ridges rising from swale land. Mr. Gerling called attention to the fact that as the park was developed, only about 5 per cent of the old trees were left, which may help to explain the exceptional number of effectively used and worthwhile plants existing there today.

The first tree shown was *Leitneria floridana*, the Florida cork tree, which is apparently hardy in New York, even though it is far north of its usual habitat. Of the flowering cherries, Mr. Gerling showed the pink-flowering *Prunus sargentii*, Sargent cherry, effectively used with a background of *Pinus strobus*, and the beautiful pure white-flowered *Prunus serrulata lannesiana* Shirotae, an Oriental cherry. A plant he feels is sadly neglected is *Oxydendrum arboreum*, the sorrel tree, which does well at Rochester, although its natural range ends in southern Pennsylvania. Among its desirable characteristics are the attractive fruit cluster, flowers like lilies of the valley in midsummer and the excellent red fall foliage.

## Ideal Elm Planting Shown

Next shown was an ideal elm planting of American elm, with the trees spaced far enough apart to allow for full development of the arching branches. Commenting that many times elms are allowed to develop with only a few big branches, often with hazardous weak crotches, Mr. Gerling stressed the desirability of growing a vase-like type with numerous smaller branches.

He continued by pointing out that,

since there is no longer the need for shade that existed 50 years ago, big trees such as elms should not be planted along city streets, where the cost of pruning, spraying for disease and removal after 70 or 80 years makes them impractical; likewise, these fast-growing forest giants should not be used in the small home yard. Showing a slide of a street planting of silver maples spaced only 20 feet apart, Mr. Gerling remarked that, with its tendency to heave sidewalks and its costly maintenance requirements, this species is misused as a street tree.

He concluded the comments on too big street trees with a slide of Norway maples, which give the densest shade of any tree except the horse chestnut and under which it is almost impossible to grow grass. At this point, Mr. Gerling mentioned that it was concern over the maintenance of these large street trees that prompted Mr. Slavin to search for trees that would save work.

Five superior smaller trees were then shown and described by Mr. Gerling. First shown was a planting of Mr. Slavin's original clones of *Ulmus americana ascendens*, the upright American elm, which antedates the Augustine elm by several years. Among the valuable features of this ascendens clone are a strong central mass and desirable lateral branches. Also, it does not tend to buttress so heavily at ground level as the conventional types.

The second Slavin clone was *Acer platanoides erectum* Slavin, upright Norway maple, which has a stiff-branched effect, with the laterals

[Continued on page 128]

## EMINENT EUROPEAN HORTICULTURISTS VISIT MONROVIA NURSERY DURING TOUR



A distinguished group of European nurserymen and horticultural specialists visiting the growing grounds of the Monrovia Nursery, Azusa, Calif., is shown above, with their hosts. The party had been touring the United States for five weeks in order to become familiar with American nursery procedures, especially growing methods. Their studies consumed an entire day at the Monrovia establishment, where Howard Past, president, and Martin Usrey, general manager, hosted the group. Great interest was expressed in the extent of the container-grown stock there—several million plants—as the container method of growing is not in wide use in Europe. Pictured above, from left to right, are Ansala Ni Edo, president of the nursery bearing his name at Bologna, Italy; Jean Massot, Vancouver, B. C., interpreter Howard Past; George Delbard, president, National Society of Horticulture of France; Robert Fauchon, fruit tree and ornamental specialist, France; Martin Usrey, and Ernest Girard, rose specialist, France. Pierre Trioreau, research director of the National Society of Horticulture of France, is not pictured.

# Kalamazoo Group Shares In Garden Clinic Success

By Rowland M. Hunt

The Kalamazoo Valley Landscape and Nurserymen's Association took an active part in a successful garden clinic held March 12 and 13 at the Kalamazoo county center building, Kalamazoo. The event was developed as a free, educational, noncommercial clinic for area homeowners by Vernon Hinz, Kalamazoo county agricultural agent, who acted as chairman of an organizational committee made up of representatives of local groups participating in the show.

Also cooperating in the program were the Michigan State University extension service, the Kalamazoo garden council, the Kalamazoo Garden Clubs, the local rose society, the Kalamazoo parks department, the Kalamazoo public library, the Michigan Audubon Society, the Kalamazoo chamber of commerce, the Kalamazoo home demonstration groups, service groups and the local board of realtors.

As a noncommercial community service, the clinic was given ample free publicity by local newspapers and radio and television stations, with the result that several thousand persons attended the show during the two days. The office of the agricultural agent assumed the cost of renting the exhibition halls and other facilities of the Kalamazoo county center building.

## Nurserymen Designed Layout

Responsible for over-all design and decorating of the event was William Deary, Deary's Landscape Service, Galesburg, past president of the K. V. L. N. A., and his committees. The design and execution of the effective entrance planting was the work of a committee headed by John Klooster, John Klooster Landscape Service, Richland, K. V. L. N. A. vice-president, and composed of Fred Krill, Prudential Nursery, Vicksburg; Robert Scovie, Inland Orchards, Marshall, association president, and M. L. Craven, Craven's Peat Moss, Kalamazoo, who furnished seven yards of peat moss for use in the exhibits. Over 80 merchandise certificates in amounts up to \$50, redeemable at member nurseries, were offered as prizes by the association.

Members of the K. V. L. N. A. who entered displays among the ex-

hibits on view throughout the clinic agreed to eliminate all advertising material from their displays—even nursery addresses were excluded—in order to preserve the public service character of the event. Despite the fact that exhibitors were somewhat handicapped in that they had only the morning of the first day of the clinic in which to install their displays, many exhibits showed much ingenuity and received favorable comment.

Outstanding in its public-relations value was the display constructed by Sam McCormick, Fair Lake Nursery, Delton, which was entitled "Stages of Plant Growth of Nursery Stock." Juniper chinensis pfitzeriana and Taxus cuspidata were shown in different stages of development from cuttings to 8-year specimens. An 18-year-old Colorado blue spruce flanked by heavy, well-sheared yews and Pfitzer junipers, 12 to 15 years old, were used in the background.

## Varied Display Themes

Other association members exhibiting and the titles of their displays were J. Venner, Kalamazoo, "Dwarf Fruit Trees and Their Propagation"; John Klooster Landscape Service, "Landscape Construction with Use of Ground Covers"; Wedel's Nursery & Garden Center, Kalamazoo, "Shade and Ornamental Trees"; Light's Tree Co., Richland,

"Lawn Irrigation and Patio Accessories"; Armintrout's Evergreen Nursery, Allegan, "Bonzai Plants"; Prudential Nursery, "Use of Peat Moss and Fertilizer"; Dutch Mountain Nursery Sales, Augusta, "Types of Plantings and Shrubs That Attract Birds"; Freeman Chemical Co., "Weed-Killing Materials and Fertilizers."

Still others were Deary's Landscape Service, "Landscape Planning with Use of Miniature Dwellings, Plants and Construction Materials"; Lott's Nursery, Three Rivers, "Broad-Leaved Evergreens"; De-Visser Landscaping, Kalamazoo, "Lawns, Types of Topsoil and Samples of Lawn Grasses"; Hampton Lake Gardens, Kalamazoo, "Bulbs—Various Types and Planting Depths"; Richards Gardens, Plainwell, "Perennials for Home Gardens"; Huntree, Saugatuck, "Propagation Methods Used in Growing Evergreen Seedlings and Use of Containers for Growing Plants"; Swicco Scientific Weed Control, "Aqua Weed Control" and Kalamazoo Nursery & Landscape Service, Galesburg, "Construction and Use of Planters."

## Park Exhibit

One of the most interesting of the many excellent exhibits entered by the other groups participating in the garden clinic was the display of the Kalamazoo parks department, which combined material on the growing and care of annuals, controlling Dutch elm disease, repairing damaged trees and treating tree troubles. Incorporated in this display was a list of shade tree varieties recommended for planting in the area, including columnar Norway maple, Crimson King maple, Schwedler



Educational exhibits made by nurserymen and landscape firms at a recent cooperative free garden problem clinic at Kalamazoo, Mich.

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<b>Buddleia Flaming Violet</b> (Plant Patent No. 519), violet .....	25.00	<b>Tamarix Summer Glow</b> , 2 to 3 ft. ....	40.00	<b>Pyracantha lalandi</b> , Quart cans, 15 to 18 ins. ....	50.00
<b>Buddleia Fortune</b> , lilac .....	25.00	<b>Weigela vanickei</b> , bright red, 2 to 3 ft. ....	35.00	<b>Pyracantha Kasan</b> , new, hardy type, Quart cans, 15 to 18 ins. ....	50.00
<b>Buddleia Purple Prince</b> (Plant Patent No. 706), purple .....	25.00	3 to 4 ft. ....	40.00	<b>Ribes alpinum</b> (Flowering Currant), Bushy, 12 to 15 ins. ....	50.00
<b>Buddleia White Profusion</b> (Plant Patent No. 786), white .....	25.00	<b>Hydrangea Domotoi</b> , Heavy, 2-yr. ....	50.00	<b>Spiraea Anthony Waterer</b> , Bushy, 15 to 18 ins. ....	35.00
<b>Caryopteris Blue Mist</b> , 2-yr., heavy .....	30.00	<b>Magnolia soulangeana alexandrina</b> , 2 to 3 ft., peat ball, \$1.75 each. 3 to 4 ft., peat ball, 2.25 each.		<b>Ilex convexa</b> , Liners, bare-root, 12 to 15 ins. ....	30.00
<b>Cornus florida rubra</b> (Pink-flower- ing Dogwood), 3 to 4 ft., well- br., peat ball, \$2.50 each.		<b>Magnolia soulangeana nigra</b> , 2 to 3 ft., peat ball, \$1.75 each. 3 to 4 ft., peat ball, 2.25 each.			
<b>Forsythia Lynwood Gold</b> , 2 to 3 ft. ....	30.00	<b>Double Weeping Red-Flowering</b> <b>Peach</b> , 3 to 4 ft. ....	60.00		
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maple, sycamore maple, sugar maple, cork tree, sweet gum, tulip tree, hackberry, thornless honey locust, little-leaved linden, silver linden, London plane tree, sycamore, pin oak and ginkgo. The parks department did not recommend planting American, Chinese or Siberian elm; silver maple; box elder; willow; poplar, or ailanthus.

Sessions of the clinic were two hours in length, presented in the afternoon of each day and repeated in the evenings. Separate programs of motion pictures, lectures and demonstrations were presented concurrently during each of the sessions.

Films used in the motion picture program and some of their sources were "How Green Is Your Garden," American Agricultural Chemistry Co.; "The Miracle of Trees"; "Springtime in Holland," Associated Bulb Growers of Holland; "The Living Bird"; "Roses for America"; "The Glad Story," and "Modern Chrysanthemums for Fall Beauty," Jackson & Perkins Co. The combined running time of these films was just over two hours, and they were presented continuously at each afternoon and evening session.

Presented by faculty members of Michigan State University and rep-  
[Continued on page 77]

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## COMING EVENTS

### MEETING CALENDAR

May 21 to 24—Western chapter, National Shade Tree Conference, Disneyland hotel, Anaheim, Calif.

May 22 to 24—Florida Nurserymen and Growers Association, annual convention, Golden Gate hotel, Miami Beach, Fla.

May 26 to 28—Short course for Texas nurserymen, Agricultural and Mechanical College of Texas, Memorial Student Center, College Station, Tex.

June 1 to 3—Alabama Nurserymen's Association, annual convention, Hotel Stafford, Tuscaloosa, Ala.

June 4 and 5—California Association of Nurserymen, annual refresher course, California State Polytechnic College, San Luis Obispo, Calif.

June 8 to 10—Georgia State Nurserymen's Association, annual convention, Bon Air hotel, Augusta, Ga.

June 18 and 19—Missouri State Nurserymen's Association, annual meeting and short course, University of Missouri, Columbia, Mo.

June 25 and 26—Illinois State Nurserymen's Association, short course, Morton Arboretum, Lisle, Ill.

July 9—Connecticut Nurserymen's Association, summer meeting, Lake Compounce, Bristol, Conn.

July 19 to 24—American Association of Nurserymen, annual convention, Statler-Hilton hotel, Dallas, Tex.

August 6 to 8—West Virginia Nurserymen's Association, summer meeting, West Virginia University campus, Morgantown, W. Va.

August 10 to 12—National Mail Order Nurserymen's Association, summer meeting, Hotel La Salle, Chicago, Ill.

August 12 and 13—Michigan Association of Nurserymen, annual nursery and landscape management conference, Kellogg center, Michigan State University, East Lansing.

August 13—Pennsylvania Nurserymen's Association, summer meeting, Conard-Pyle Co. establishment, West Grove, Pa.

August 20—New England Nurserymen's Association, summer meeting, Adams Nurseries, Westfield, Mass.

August 24 to 26—Southern Nurserymen's Association, annual convention, Hotel John Marshall, Richmond, Va.

August 24 to 27—Texas Association of Nurserymen, annual convention, Commodore Perry hotel, Austin, Tex.

August 25 to 29—National Shade Tree Conference, Vanderbilt hotel, Asheville, N. C.

### WESTERN TREE CHAPTER

The silver anniversary meeting of the Western chapter, National Shade Tree Conference, will be held May 21 to 24 at the Disneyland hotel, Anaheim, Calif. The theme, "Trees—God's Creation—Our Responsibility" was used in the preparation of the program by chapter president Percy Everett, superintendent, Santa

[Continued on page 26]

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- **AUSTRIAN PINE**  
Good timber species. A beautiful, dark green, long-needled ornamental and Christmas tree, grown from selected seed from the Austrian Alpine region.

2-yr., S. (2-0), 2 to 4 ins. ...	4.00	20.00
2-yr., S. (2-0), 3 to 6 ins. ...	5.00	25.00
2-yr., S. (2-0), 6 to 10 ins. ...	8.00	40.00
Excellent size for direct field planting.		
- **MUGHO PINE—Pumilio Strain**  
Very best of true dwarf. Compact, low-growing ornamental Pine.

3-yr., S. (3-0), 2 to 3 ins. ...	5.00	25.00
3-yr., S. (3-0), 3 to 5 ins. ...	8.00	40.00

All stock grown from  
Selected seed and cuttings.  
**Carefully Graded and Packed**  
No charge for packing and boxing.  
Our cold storage  
permits late shipments.

**ORDER NOW!**  
write or  
phone 5-5686

# TREES A YEAR! \*

## Our volume enables us to Save You Money - -

50 at 100 rate; 500 at 1,000 rate

Per 100 Per 1000

**AMERICAN RED PINE**

Excellent timber and Christmas tree.

2-yr., S. (2-0), 2 to 4 ins.	\$ 4.00	\$ 20.00
2-yr., S. (2-0), 3 to 5 ins.	5.00	25.00
3-yr., S. (3-0), 4 to 8 ins.	7.00	35.00
Suitable for field planting.		
3-yr., S. (3-0), 6 to 12 ins.	9.00	45.00
4-yr., T. (2-2), 8 to 12 ins.	20.00	100.00

**MUSSER EXCLUSIVE NORWAY SPRUCE**

Exceptionally fast-growing, straight-stemmed stock especially desirable for Christmas trees, ornamentals and timber. Grown from seed collected by our own men from selected trees.

2-yr., S. (2-0), 5 to 10 ins.	7.00	35.00
2-yr., S. (3-0), 8 to 12 ins.	10.00	50.00
4-yr., T. (3-1), 8 to 12 ins.	16.00	80.00
4-yr., T. (2-2), 10 to 14 ins.	20.00	100.00

**NORWAY SPRUCE**

2-yr., S. (2-0), 2 to 4 ins.	2.50	17.50
2-yr., S. (2-0), 3 to 6 ins.	5.00	25.00
3-yr., S. (3-0), 4 to 8 ins.	7.00	35.00

\*1-yr., TT., 12 to 18 ins., \$1.00 each  
 \*2-yr., TT., 18 to 24 ins., \$1.50 each  
 \*3-yr., TT., 24 to 30 ins., \$2.50 each

\*Sold in lots of 5 or more. Individually packed with ball of peat moss.

**WHITE SPRUCE**

Similar to Norway Spruce except for its lighter color and slower growth rate.

2-yr., S. (2-0), 2 to 4 ins.	2.50	17.50
2-yr., S. (2-0), 4 to 8 ins.	5.00	25.00
3-yr., S. (3-0), 5 to 10 ins.	7.00	35.00
3-yr., S. (3-0), 8 to 12 ins.	9.00	45.00
4-yr., T. (3-1), 8 to 12 ins.	18.00	90.00

**BLACK HILLS SPRUCE**

Fine ornamental. Most compact spruce. Excellent Christmas tree.

2-yr., S. (2-0), 2 to 4 ins.	4.00	20.00
3-yr., S. (3-0), 4 to 8 ins.	7.00	35.00
4-yr., S. (4-0), 8 to 12 ins.	10.00	50.00
4-yr., T. (2-2), 5 to 10 ins.	17.00	85.00
5-yr., T. (3-2), 8 to 12 ins.	24.00	120.00

**SERBIAN SPRUCE (Picea omorika)**Valuable ornamental. Tall, symmetrical growth, with very narrow branch spread. Needles  $\frac{1}{2}$  to  $\frac{3}{4}$ -in. long. Glossy green.

5-yr., T. (3-2), 8 to 14 ins.	30.00	150.00
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**COLORADO BLUE SPRUCE**

Excellent stock—finest in the country for ornamental and Christmas tree use. Sturdy, compact, straight stems. From slightly blue-green to marvelous blue. Seed collected at very high cost from trees showing only the best characteristics.

2-yr., S. (2-0), 2 to 4 ins.	4.00	20.00
2-yr., S. (3-0), 3 to 6 ins.	6.00	30.00
3-yr., S. (3-0), 4 to 8 ins.	9.00	45.00
3-yr., S. (3-0), 6 to 10 ins.	12.00	60.00

Very superior stock

4-yr., T. (3-1), 4 to 8 ins.	18.00	90.00
4-yr., T. (2-2), 6 to 10 ins.	25.00	125.00
5-yr., T. (3-2), 8 to 12 ins.	35.00	175.00
*6-yr., TT., 10 to 12 ins.	\$1.00 each	
*7-yr., TT., 12 to 15 ins.	\$1.50 each	
*8-yr., TT., 14 to 20 ins.	\$2.00 each	

\*Sold in lots of 5 or more. Individually packed with ball of peat moss. Twice pruned, sheared to develop a full bushy plant.

**ENGELMANN BLUE SPRUCE**

2-yr., S. (2-0), 5 to 10 ins.	7.00	35.00
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Per 100 Per 1000

**CANADIAN HEMLOCK**

Lacy, graceful growing habit. Can be sheared to any size. Hedges, specimen ornamentals. Full shade or full sunlight.

3-yr., S. (3-0), 4 to 8 ins.	\$16.00	\$ 80.00
3-yr., S. (3-0), 8 to 12 ins.	24.00	120.00

**DOUGLAS FIR**

Hardy Rocky Mountain type. Superior ornamental and Christmas tree.

2-yr., S. (2-0), 4 to 8 ins.	5.00	25.00
2-yr., S. (2-0), 5 to 10 ins.	7.00	35.00
3-yr., S. (3-0), 8 to 12 ins.	11.00	55.00
5-yr., T. (3-2), 8 to 12 ins.	20.00	100.00

**BALSAM FIR**

Fine for Christmas trees and ornamentals.

2-yr., S. (2-0), 2 to 4 ins.	6.00	30.00
3-yr., S. (3-0), 4 to 8 ins.	8.00	40.00

**CONCOLOR FIR**

Excellent ornamental. Silver trunk, soft silver foliage. Fine for Christmas trees. Holds needles best of any short-needle tree.

2-yr., S. (2-0), 3 to 6 ins.	9.00	45.00
3-yr., S. (3-0), 4 to 9 ins.	13.00	65.00

**JAPANESE LARCH**

Japanese Larch is not evergreen, but is included here because the fine, light green needles relate them to evergreens in appearance.

2-yr. S. (2-0), 5 to 10 ins.	9.00	45.00
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**AMERICAN ARBORVITAE**

Popular for hedges and ornamentals.

3-yr., S. (3-0), 3 to 6 ins.	5.00	25.00
3-yr., S. (3-0), 6 to 8 ins.	8.00	40.00

**ORIENTAL ARBORVITAE**

(Thuja orientalis)

A popular evergreen ornamental. Grows in pyramidal form—graceful and symmetrical. Finer foliage than the other arborvitae. Light green.

3-yr., S. (2-0), 6 to 14 ins.	8.00	40.00
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**GLOBE ARBORVITAE—Transplants**

Plants started from rooted cuttings assure true strains. Hovey's, green.

1-yr., T., 4 to 6 ins.	30.00	250.00
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\*Ornamental, 12 to 16-in. spread, 12 to 16-in. height, \$2.25 each.

\*Field-grown, twice transplanted and twice sheared. Excellent, bushy plants. Sold in lots of 5 or more. Individually packed with ball of peat moss.

**PYRAMIDAL ARBORVITAE—Transplants**

All plants started from rooted cuttings to assure true strains. Compact, green.

1-yr., T., 5 to 7 ins.	30.00	....
2-yr., T., extra-heavy, field-grown, 10 to 15 ins.	90.00	....

**JUNIPER—Blue Pfitzer, hetzi glauca**

Improved Juniper with irregular spreading habit, fast growth, bluish color. Can be used extensively in landscape work. Excellent for foundation plantings.

1-yr., T., 5 to 7 ins.	25.00	....
2-yr., T., 6 to 10 ins.	65.00	....

Field-grown

2-yr., T., 10 to 15 ins.	90.00	....
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Heavy, field-grown

\*TTT., spread, 15 to 18 ins., \$2.25 each.

\*Field-grown, ornamental size. Extra fine. Sold in lots of 5 or more. Individually packed with ball of peat moss.

**JUNIPER—Irish**

1-yr., T., 4 to 6 ins.	25.00	200.00
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Per 100 Per 1000

**JAPANESE YEW—Grown from seed**

Taxus cuspidata capitata, upright, pyramidal. Extra-nice plants; excellent, fibrous roots.

2-yr., S. (2-0), 3 to 6 ins.	\$20.00	\$150.00
4-yr., T. (2-2), 6 to 10 ins.	40.00	....

**JAPANESE YEW—Transplanted Rooted Cuttings—Heavy Type**

Taxus Hicksi, upright.

1-yr., T., 5 to 6 ins.	25.00	175.00
2-yr., T., 8 to 12 ins.	40.00	300.00

Taxus browni, upright.

1-yr., T., 4 to 6 ins.	25.00	175.00
2-yr., T., 6 to 8 ins.	40.00	350.00

Taxus cuspidata, spreading.

1-yr., T., 5 to 6 ins.	20.00	150.00
2-yr., T., 6 to 8 ins.	30.00	250.00

Taxus intermedia, spreading.

1-yr., T., 4 to 6 ins.	25.00	175.00
2-yr., T., 6 to 8 ins.	40.00	350.00

Taxus cuspidata capitata, spreading. From side cuttings.

2-yr., T., 6 to 8 ins.	30.00	250.00
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**JAPANESE HOLLY**

Excellent evergreen shrub and hedge. Ilex convexa, transplanted rooted cuttings.

1-yr., T., 4 to 6 ins.	20.00	175.00
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Ilex rotundifolia, transplanted rooted cuttings.

1-yr., T., 5 to 6 ins.	20.00	175.00
2-yr., T., 6 to 8 ins.	30.00	250.00

Ilex crenata hetzi

Very shiny, convex-shaped leaf. Larger leaf than Convexa.

1-yr., T., 4 to 6 ins.	20.00	175.00
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**CHINESE CHESTNUT, Blight Resistant Ching Chow Strain.**

Will bear large, sweet delicious nuts. Very fast-growing. Valuable as ornamental and shade, as well as for fruit. Grows 30 to 40 ft. tall. May be ordered in lots of 10 at the 100 rate.

S., 10 to 18 ins.	30.00	150.00
S., 18 to 30 ins.	40.00	200.00

**PIN OAK (Quercus palustris)**

Forms a symmetrical, pyramidal head with long pendulous branches. Foliage deeply cut, assumes brilliant red autumn color. Because of rapid growth, is much used for avenues and lawn specimens. May be ordered in lots of 10 at 100 rate.

S., 6 to 12 ins.	12.00	80.00
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**RED OAK (Quercus rubra)**

Northern, hardy, rapid-growing timber and shade tree. Dark red fall foliage.

S., 6 to 18 ins.	12.00	60.00
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**WHITE OAK (Quercus alba)**

S., 6 to 10 ins.	12.00	60.00
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**WHITE BIRCH—Betula**

S., 6 to 12 ins.	8.00	40.00
S., 12 to 24 ins.	12.00	60.00

**HONEY LOCUST—Thornless**

6 to 12 ins.	6.00	30.00
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**AMERICAN ELM**

10 to 20 ins.	6.00	30.00
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**WHITE ASH**

6 to 10 ins.	5.00	25.00
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**SUGAR MAPLE—Hard Maple**

6 to 12 ins.	10.00	50.00
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**ROSA MULTIFLORA—Living Fence**

Graded 3 mm. and up.

10 to 18 ins.	10.00	50.00
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Many other Evergreens, Hardwoods, Ornamental and Shade Trees — Rhododendrons and Azaleas.

SEND FOR COMPLETE CATALOG and WHOLESALE PLANTING LIST — also famous CHRISTMAS TREE GROWERS' GUIDE

\* "20 MILLION TREES A YEAR" became a recognized symbol of Musser Forests years ago when that volume was reached—annual production has since reached more than 35 MILLION TREES.

**MUSSER FORESTS, INC.**

Box 16-D

INDIANA, PA.



# EVERGREENS?

## ARE YOU PREPARING TO MEET THE GREAT FUTURE DEMAND FOREWARNED . . . FOREARMED! WILL YOU BE CAUGHT NAPPING?

"I think the necessity of being ready increases."  
—Abraham Lincoln

### — THIS FINE STOCK —

	Per 100	Per 1000
<i>Abelia grandiflora</i> (Glossy Abelia) *Pink flowers all summer, R.C.	\$ 8.00	\$ 64.00
<i>Abelia grandiflora sherwoodii</i> (Sherwood Dwarf Abelia) *Fine foliage, tiny flowers, R.C.	8.00	64.00
<i>Azalea amoena coccinea</i> Splendid dwarf, red flowers. *3 to 6 ins., once transplanted	17.00	136.00
<i>Azalea hinodogiri</i> Dwarf, compact, bright red. *3 to 6 ins., once transplanted	17.00	136.00
<i>Azalea maxwellii</i> (Maxwell Azalea) Superb evergreen, carmine-red. *6 to 9 ins., once transplanted	22.00	176.00
<i>Sherwood Carise Azalea</i> A wonderful dwarf evergreen. Bright, clear carise. *3 to 6 ins., once transplanted	17.00	136.00
<i>Sherwood Red Azalea</i> Compact dwarf and evergreen. *3 to 6 ins., once transplanted	17.00	136.00
<i>Berberis buxifolia nana</i> (Dwarf Magellan Barberry) *Fine compact dwarf, R.C.	10.00	80.00
<i>Berberis chenaultii</i> (Chenault Barberry) *Similar to verruculosa, R.C.	10.00	80.00
<i>Berberis darwinii</i> (Darwin Barberry) Deep green, glossy. Bright orange flowers. *9 to 12 ins., once transplanted	27.00	216.00
<i>Berberis julianae</i> (Wintergreen Barberry) *One of the best upright barberries, R.C.	12.00	96.00
<i>Berberis stenophylla Irwinii</i> (Irwin Barberry) Low-growing, yellow flowers. *3 to 6 ins., once transplanted	18.00	144.00
<i>Berberis triacanthophora</i> (Threespine Barberry) *Slender, arching branches, R.C.	12.00	96.00
<i>Buxus sempervirens</i> (Common Box) *Well-known hedge plant, R.C.	8.00	64.00
<i>Buxus sempervirens rotundifolia</i> (Round-leaved Box) *Stout branches, round leaves, R.C.	8.00	64.00
<i>Buxus semp. suff. albo-marg.</i> (Silveredge Dwarf Box) *Dwarf, silvery, R.C.	9.00	72.00
<i>Calluna vulgaris rubra</i> (Red Heather) *A brilliant display of flowering beauty, R.C.	8.00	64.00

<i>Cephalotaxus harringtonia fastigiata</i> (Plum Yew) *Remarkable columnar, yew-like tree, R.C.	Per 100 Per 1000
<i>Chamaecyparis lawsoniana cyano-viridis</i> *Lovely silvery dwarf, New. R.C.	\$12.00 \$ 96.00
<i>Chamaecyparis pisifera filifera</i> (Thread Cypress) *A multitude of filaments, R.C.	12.00 96.00
<i>Cotoneaster parneyi</i> (Parney Cotoneaster) *A great mass of red berries, R.C.	9.00 72.00
<i>Daboecia polifolia</i> (Swedish Bell Heather) *Low-growing. Pink flowers, R.C.	8.00 64.00
<i>Daboecia polifolia alba</i> (White Irish Bell Heather) *Nodding flowers of purest white, R.C.	8.00 64.00
<i>Daboecia polifolia rosea</i> (Pink Irish Bell Heather) *Flowers are abundant, rosy-lavender, R.C.	8.00 64.00
<i>Erica carnea</i> (King George) *Low-growing. Red flowers, R.C.	8.00 64.00
<i>Erica carnea</i> (Sherwood Creeping Heath) *Low creeper. Flowers bright carmine-red, R.C.	8.00 64.00
<i>Erica carnea</i> (Sherwood Early Red Heath) *An early red. Blooms in January, R.C.	8.00 64.00
<i>Erica carnea</i> (Springwood White) *Fine low-growing heath. Flowers pure white, R.C.	8.00 64.00
<i>Erica cinerea</i> (C. D. Eason) *Soft pink flowers, R.C.	8.00 64.00
<i>Erica mediterranea hybrida</i> (Darley Heath) *Lavender, early, the hardiest, R.C.	8.00 64.00
<i>Escallonia langleyensis</i> (Langley Escallonia) *Red flowers, fragrant foliage, R.C.	8.00 64.00
<i>Euonymus radicans</i> (Wintercreeper) *Low procumbent shrub, rich green foliage, R.C.	8.00 64.00
<i>Euonymus rad. arg.-marg.</i> (Silveredge Wintercreeper) *A variegated, low, procumbent shrub, R.C.	8.00 64.00
<i>Euonymus radicans vegetus</i> (Big-leaved Wintercreeper) *A larger type of radicans, profuse growth, R.C.	8.00 64.00
<i>Hypericum calycinum</i> (Aaron's-beard St.-John's-wort) *Thick ground cover, yellow flowers, R.C.	8.00 64.00
<i>Hypericum patulum henryi</i> (Henry St.-John's-wort) *3 to 4 ft., yellow flowers, R.C.	8.00 64.00
<i>Ilex aquifolium albo-marginata</i> (Silveredge English Holly) *Silvery foliage, red berries, R.C.	12.00 96.00
<i>Ilex aquifolium angustifolia</i> (Narrow-leaved English Holly) *Beautiful slender tree, R.C.	12.00 96.00
<i>Ilex aquifolium pyramidalis</i> (Pyramidal English Holly) *A great abundance of red berries, R.C.	12.00 96.00
<i>Ilex crenata rotundifolia</i> *Dwarf, small leaves, R.C.	8.00 64.00
<i>Ilex pernyi</i> (Perny Holly) *Dense foliage, prickly leaves, R.C.	10.00 80.00

Ana Botanic Gardens, Santa Ana, Calif., and program chairman Dale Griggs, Santa Ana superintendent of parks. After registration, which will be held at the hotel from 8 to 10 o'clock on the first morning of the meeting, the program will proceed as follows:

#### MAY 21

10:15 a. m. — Welcome address, by Charles Pearson, mayor of Anaheim.

10:45 a. m. — "Our Western Chapter, Past, Present and Future," by Edward H. Scanlon, editor, Trees magazine.

11:15 a. m. — "Trees—God's Creation—Our Responsibility," from the arborist's point of view, by Leslie Mayne, arborist, San Mateo, Calif.

12:00 noon — Lunch, Disneyland hotel. "Trees—God's Creation—Our Responsibility," from the administrator's point of view, by Carl J. Thornton, city manager, Santa Ana, Calif.

1:30 p. m. — "Trees—God's Creation—

Our Responsibility," from the businessman's point of view, by Darrell Neighbors, manager, Bixby Land Co., Long Beach, Calif.

2:15 p. m. — "The Part Trees Play in the Modern Trend of Park Development," by Fred W. Roewekamp, superintendent of park development, Los Angeles department of recreation and parks.

3:00 p. m. — "Our Public," by H. E. Welsh, public relations department, California Edison Co., Los Angeles.

3:30 p. m. — "Air Pollution Effects on Trees and Plants in Southern California," by Dr. John Middleton, department of plant pathology, University of California, at Riverside.

#### MAY 22

8:00 a. m. — Breakfast.

"Our Debt to Australia as Created by the Olympic Games," by Lawrence E. Houston, administrator of physical education, safety and youth service, Los Angeles city schools.

9:30 a. m. — "Why Supervisors Are

Different," by David Snow, director of industrial relations, Hallamore Electronics, Anaheim.

10:00 a. m. — Concurrent panel discussions:

10:00-10:30 a. m., Room A — "Personnel Administration," by E. F. Thomas, Hunt Food & Industries, Inc., Fullerton, Calif., moderator.

10:30-11:00 a. m., Room A — "Automobiles vs. Trees," with H. N. Bosworth, landscape engineer, state of California, moderator, and Ellis L. Kindig, superintendent of parks, Riverside, Calif., and Riley Stevens, Stevens Tree Service, Portland, Ore., panel members.

10:00-11:00 a. m., Room 1 — "Soils and Irrigation," with J. J. Cooney, Orange county, Calif., farm adviser, speaker, and Dr. Daniel G. Aldrich, University of California, at Davis; O. A. Matkin, Soil and Plant Laboratory, Orange, and Pat Pecorelli, Los Angeles park department, panel members.

10:00-11:00 a. m., Room 2 — "Line

	Per 100	Per 1000
<i>Abies zabeliana</i> (Zabel Laurel) Hardy, semidwarf and a good bloomer. *% to 9 ins., once transplanted	\$20.00	\$160.00
<i>Abies columbianum</i> (Labrador Tea) Dark green leaves, white flowers, lovely. *% to 9 ins., once transplanted	22.00	176.00
<i>Osmanthus delavayi</i> (Delavay Osmanthus) *Fragrant white flowers. Lovely, R.C.	9.00	72.00
<i>Osmarea burkwoodi</i> (Burkwood Osmarea) *Fine foliage, white flowers, R.C.	9.00	72.00
<i>Psychandra terminalis</i> (Japanese Spurge) Evergreen and grows in dense masses. *1-yr. plants	9.00	72.00
<i>Phillyria mucronata</i> , pink, white or red *Name your colors, R.C.	9.00	72.00
<i>Phillyria decora</i> (Lance-leaved Phillyria) *Elegant round-topped shrub. White flowers, R.C.	9.00	72.00

## DID YOU KNOW?

That the cones of Knobcone Pine (*Pinus attenuata*) will remain unopened on the tree for 50 years, become oftentimes imbedded in the trunk, seldom open before the tree dies and carry viable seed through a forest fire.

<i>Abies excelsa nidiformis</i> (Nest Spruce) Wonderful, dwarf, dark green, flattened globe. *6 to 9 ins., TT., B.R.	50.00	400.00
<i>Abies excelsa sherwoodii</i> (Sherwood's Multnomah Spruce) Beautiful, dwarf, irregular globe, New. *9 to 12 ins., TT., B.R., near specimens	73.00	
<i>Abies glauca densata</i> (Black Hills Spruce) A handsome hardy tree. *3 to 6 ins., once transplanted	9.00	72.00
<i>Abies pungens</i> (Colorado Spruce) One of the most desirable of the spruces. *12 to 15 ins., once transplanted, B.R.	20.00	160.00
<i>Pieris japonica</i> (Japanese Pieris) *A magnificent shrub. White flowers, R.C.	9.00	72.00
<i>Pinus griffithii</i> (Griffith Pine) Sometimes called the blue pine. Rare. *% to 9 ins., once transplanted	14.00	112.00
<i>Pinus jeffreyi</i> (Jeffrey Pine) A rather open picturesque, spire-shaped conifer. *% to 12 ins., once transplanted	18.00	144.00
<i>Pinus mughus compacta</i> (Mugho Pine) A dense, stout, dwarf evergreen. *6 to 9 ins., TT., B.R., near specimens	49.00	
	65.00	
<i>Pinus pinea</i> (Stone Pine) Picturesque, bright green. *% to 9 ins., not transplanted	12.00	96.00
<i>Rhododendron intricatum</i> (Bluet Rhododendron) *Dwarf gem, tiny leaves, blue flowers, R.C.	12.00	96.00

	Per 100	Per 1000
<i>Taxus baccata</i> (English Yew) One of the finest of all hedge subjects. *9 to 12 ins., TT., B.R., hedge grade	\$41.00	
<i>Taxus baccata dovastoni</i> (Dovaston Yew) *Dwarf cushion, very choice, R.C.	12.00	\$ 96.00
<i>Taxus baccata pendula</i> (Weeping English Yew) *Dark green, pendulous. Rare, R.C.	12.00	96.00
<i>Taxus baccata procumbens</i> (Prostrate English Yew) *Dwarf, compact, symmetrical, R.C.	10.00	80.00
<i>Taxus baccata repandens</i> (Spreading English Yew) *Choice, dark green spreader, R.C.	10.00	80.00
<i>Taxus bac. repandens aurea</i> (Gold Spreading English Yew) *Rare golden spreader, R.C.	12.00	96.00
<i>Taxus cuspidata</i> (Japanese Yew) One of the most satisfactory of dwarf evergreens. *9 to 12 ins., TT., B.R., hedge grade	49.00	
<i>Taxus cuspidata columnaris</i> (Columnar Yew) *Unusual irregular column, R.C.	10.00	80.00
<i>Taxus cusp. fastigiata aurea</i> (Gold Column Japanese Yew) *Dwarf, compact, very rare and choice, R.C.	12.00	96.00
<i>Taxus media hicksii</i> (Hicks' Yew) *Hardy, irregular column, R.C.	10.00	80.00
<i>Taxus</i> (name unknown). A dwarf golden globe which is brightest in winter. *Very fine and very scarce, R.C.	12.00	96.00
<i>Taxus</i> (name unknown) *Dwarf, light golden globe. Rare, R.C.	12.00	96.00
<i>Teucrium chamaedrys</i> (Chamaedrys Germander) *Low, heath-like, lavender flowers, R.C.	8.00	64.00
<i>Thuja occidentalis</i> (American Arborvitae) Makes fine low hedges or taller windbreaks. *3 to 4 ft., TT., B.R., hedge grade	97.00	
<i>Thuja occ. pyramidalis</i> (American Pyramidal Arborvitae) *Dense, beautiful column, R.C.	9.00	72.00
<i>Thuja occidentalis umbraculifera</i> (Umbrella Arborvitae) *Dwarf, dense, flattened globe, R.C.	9.00	72.00
<i>Vincetoxicum</i> (Common Periwinkle) Superlative evergreen ground cover, blue flowers. *1-yr. plants	8.00	64.00

## — REFER TO OUR CATALOG FOR OTHER ITEMS —

Shipping charges prepaid on stock marked with an asterisk(\*). No packing charge. T indicates once transplanted; TT, twice transplanted; B.R., bare-root; R.C., rooted cutting. Rooted cuttings will be shipped when ready varying from February through June and cannot be held. Rooted cutting orders must total a minimum of 100 plants. Please give an alternate variety. 25% down. 25 at 100 rate; 250 at 1000 rate.



**SHERWOOD NURSERY CO.**  
Evergreens - PROPAGATORS AND GROWERS  
WHOLESALE

Wholesale list available—trade only.  
(It contains complete descriptions.)

CORBETT, ORE.

Clearance, Pruning and Safety Practice," with Keith Davey, Davey Tree Expert Co., San Francisco, Calif., speaker, and Eugene Cox, city forester, Oakland; William Griffin, Griffin & Morgan Tree Service, Santa Barbara, and Ross McIntire, park department, Los Angeles, panel members.

11:00 a. m.—Concurrent panel discussions:

Room A—"Tree Diseases and Insect Control," with Charles D. Allen, president, Alco Chemical Co., Artesia, Calif., speaker, and Thomas McLeod, Orange county deputy agricultural commissioner; Harold Mitchell, entomologist, Pasadena, Calif., and Pierre Miller, retired professor of plant pathology, University of California at Los Angeles, panel members.

Room 1—"Trends in Mechanization," with Walter Barrows, superintendent of parks, Whittier, Calif., speaker, and Roger Sohner, Sohner Tree Service, San Anselmo, Calif.; Ronald Townsend, superintendent of parks, Pasadena, and El-

mer Lee, Southern California Edison Co., Los Angeles, panel members.

Room 2—"Tree Selection and Planting Practices," with Maunsell Van Rensselaer, director, Saratoga Horticultural Foundation, Saratoga, Calif., speaker, and John Silva, assistant park superintendent, Fullerton, Calif., Carl Raahauge, Keeline-Wilcox Nurseries, Brea, Calif., and Finlay MacKenzie, superintendent of parks, Santa Barbara, Calif., panel members.

12:00 noon—Lunch.

Report of nomination committee.

Election of officers.

7:30 p. m.—Buffet banquet.

2:00 p. m.—Equipment demonstration.

MAY 23

9:30 a. m.—"Arboretums and Their Value in the Community," by Dr. William Stewart, director, Los Angeles State and County Arboretum, Arcadia, Calif.

10:00 a. m.—"What Our Universities Are Doing To Provide Trained Personnel," by Dr. Mildred Mathias, department of botany, U. C. L. A.

10:30 a. m.—"Should Trees Be Planted in Business Areas?" by Mrs. Valley M. Knudson.

11:00 a. m.—"Planning and Planting in Disneyland—Before Opening," by Morgan (Bill) Evans, landscape architect.

11:30 a. m.—"Planning and Planting in Disneyland—After Opening," by Raymond Miller, landscape architect, Disneyland.

12:00 noon—Lunch.

"Management's Responsibility for the Safety of Personnel," by Harold Kennedy, Los Angeles county council.

1:30 p. m.—Guided tour of Disneyland.

7:30 p. m.—"Biological Control of Insects"—Colored film—Narrator, Dr. Charles A. Flesher, department of biological control, University of California, at Riverside.

MAY 24

9:30 a. m.—Business meeting.

11:00 a. m.—Adjournment.

## WAYNESBORO NURSERIES

Phone: Whitehall 2-8267

Waynesboro, Virginia

## DORMANT NURSERY STOCK

Available for prompt shipment.

APPLE		Per 10	Per 100
2-yr., 5 to 6 ft., 11/16-in. cal.		\$9.50	\$85.00
2-yr., 4 to 5 ft., 9/16-in. cal.		8.50	75.00
2-yr., 3 to 5 ft., 7/16-in. cal.		6.50	60.00
1-yr., 4 to 6 ft.		5.00	40.00
1-yr., 3 to 4 ft.		4.00	30.00

Delicious, Double Red	Stayman Double Red
Early Harvest	Summer Rambo
Grimes Golden	Summer Rambo Red
Hyslop Crab Apple	Vance Double Red Delicious
Jonathan Double Red	Winesap
Lodi	Yellow Delicious
Lowry	Yellow Transparent
Maiden Blush	Yorking (Double Red York)
Rome Double Red No. 262	

**MULTIPLE VARIETY APPLE TREES.** Grafted to varieties ripening from earliest to latest, including such apples as Yellow Transparent, Summer Rambo, Yellow Delicious, Red Delicious and Stayman.

	Per 10	Per 100
5-in-1 Apple, 2-yr., 9/16-in. cal.	\$15.00	\$135.00
5-in-1 Apple, 2-yr., 11/16-in. cal.	17.50	160.00
4-in-1 Apple, 2-yr., 9/16-in. cal.	12.50	110.00

PLUM		Per 10	Per 100
11/16-in. cal., 5 to 7 ft.		\$8.50	\$80.00
9/16-in. cal., 4 to 5 ft.		7.50	70.00

Abundance, Burbank, Methley, Shropshire Damson

SHRUBS		Per 10	Per 100
Almond, pink-flowering		\$ 5.50	\$ 50.00
18 to 24 ins.		7.50	70.00
2 to 3 ft.		4.50	
Althaea, red, pink, purple, white			
2 to 3 ft.		4.50	
Barberry, thunbergi			
3-yr., 18 to 24 ins., T.		4.00	35.00
3-yr., 24 to 30 ins., T.		5.00	45.00
3-yr., 30 to 36 ins., T.		7.00	65.00
Barberry, red			
18 to 24 ins., T.		7.50	
Bush Honeysuckle, Morrow, tatarica, rosea			
18 to 24 ins.		2.50	20.00
2 to 3 ft.		3.50	30.00
Butterfly Bush, Ile de France, Mt. Everest, white			
2-yr., No. 1.		3.50	
Chinese Beautyberry (Callicarpa purpurea)			
18 to 24 ins.		4.00	35.00
2 to 3 ft.		5.50	50.00
Cornus, chenaaultii			
18 to 24 ins.		3.50	30.00
2 to 3 ft.		4.50	40.00
Crape Myrtle, pink, purple, red			
2 to 3 ft.		6.50	
Deutzia crenata and Pride of Rochester			
2 to 3 ft.		3.50	30.00
3 to 4 ft.		5.00	45.00
4 to 5 ft.		7.00	65.00
Deutzia gracilis and gracilis rosea			
18 to 24 ins.		7.00	65.00
Dogwood, red stem			
3 to 4 ft.		5.00	45.00
Euonymus alatus			
2 to 3 ft.		11.00	100.00
Flowering Quince			
18 to 24 ins.		4.00	35.00
Forsythia, dwarf (compacta nana)			
15 to 18 ins.		3.50	30.00
18 to 24 ins.		4.50	40.00

Forsythia Lynwood Gold and Spring Glory		Per 10	Per 100
18 to 24 ins.		\$3.50	\$30.00
2 to 3 ft.		4.50	40.00
3 to 4 ft.		5.50	50.00
4 to 5 ft.		7.00	65.00
Forsythia spectabilis, suspensa, viridissima			
2 to 3 ft.		3.50	30.00
3 to 4 ft.		4.50	40.00
4 to 5 ft.		5.50	50.00
Hydrangea French China Blue Boy			
3 canes or more.		4.50	40.00
2 canes or more.		3.50	30.00
Hydrangea Nikko Blue (Hardy blue)			
2-yr., 3 canes or more.		5.50	50.00
Hydrangea Nikko Blue (Hardy blue)			
2 yr., 2 canes or more.		4.50	40.00
Hydrangea P. G.			
2 to 3 ft.		4.50	40.00
3 to 4 ft.		6.50	
Lilac, Common Purple			
18 to 24 ins.		4.50	
Lilac, French Hybrids			
2 to 3 ft.		7.00	65.00
(Belle de Nancy, Charles X, Doyen Keteleer, Ludwig Spaeth, President Grevy, President Lincoln, Rubra de Marley)			
Mock Orange, Atlas, Innocence, Belle Etoile			
2 to 3 ft.		6.50	60.00
Mock Orange, Double Fragrant, white			
2 to 3 ft.		7.50	70.00
Pearlbush			
2 to 3 ft.		5.00	
3 to 4 ft.		6.50	
Pussy Willow, French			
18 to 24 ins.		4.00	
2 to 3 ft.		5.00	

PEACH		Per 10	Per 100
6 to 7 ft., 3/8 to 1-in. cal.		\$7.00	\$60.00
5 to 6 ft., 11/16-in. cal.		6.00	50.00
4 to 5 ft., 9/16-in. cal.		5.00	40.00

Ambergem	Heathcote	Red Globe
Cardinal	J. H. Hale	Red Haven
Dixgem	Keystone	Shipper's Red
Dixred	Late Elberta	Slappey
Elberta	Mayflower	South Haven
Golden Jubilee	Ranger	Summercrest
Goldhaven	Red Cap	

FIGS		Per 10	Per 100
Brown Turkey, 3 to 4 ft.		\$8.00	
Celestial, 2 to 3 ft.		7.00	

**MUSCADINE GRAPES.** 2-yr. vines, \$4.00 per 10; \$37.50 per 100.

**Bronze Scuppernon.** 2-yr. vines, \$4.00 per 10; \$37.50 per 100.

**RASPBERRIES** Cumberland, \$4.50 per 10; \$40.00 per 100.

**BLUBERRIES** 3-yr., 12 to 18 ins.

**Jersey, Pemberton, Bluejay, \$5.50 per 10; \$45.00 per 100.**

**STRAWBERRIES** Per 100 Per 250 Per 500 Per 1000

Blackmore and Robinson \$1.60 \$3.50 \$6.00 \$11.00

Dixieland, Pochontas, Tennessee Beauty 2.00 4.40 8.00 15.00

Snowball, Common		Per 10	Per 100
3 to 4 ft.		\$ 6.50	\$60.00
Snowball, Japanese			
2 to 3 ft.		7.50	70.00
3 to 4 ft.		8.50	80.00
3 to 4 ft.		12.00	
Snowberry (Symphoricarpos racemosus)			
2 to 3 ft.		3.50	30.00
3 to 4 ft.		4.00	35.00
Spiraea Anthony Waterer			
15 to 18 ins.		4.50	40.00
18 to 24 ins.		5.50	50.00
Spiraea billardii rosea and alba			
18 to 24 ins.		3.50	30.00
2 to 3 ft.		4.50	40.00
Spiraea thunbergi			
18 to 24 ins.		4.50	40.00
2 to 3 ft.		5.50	50.00
Tamarix			
2 to 3 ft.		3.50	30.00
3 to 4 ft.		4.50	40.00

Viburnum carlesii		Each	Per 10
15 to 18 ins., B&B.		\$2.25	\$20.00
18 to 24 ins., B&B.		2.75	25.00

NOTE: Not B&B, 50c less.

Viburnum dilatatum		Per 10	Per 100
18 to 24 ins.		6.50	
Vitex macrophylla			
2 to 3 ft.		5.00	
3 to 4 ft.		6.50	
Willow, Dwarf Arctic Blue			
15 to 18 ins.		3.00	
Winter Jasmine (Jasminum nudiflorum)			
2-yr.		4.50	40.00
Weigela Eva Ruthke			
18 to 24 ins.		4.50	40.00
2 to 3 ft.		5.50	50.00
Weigela rosea			
18 to 24 ins.		2.50	20.00
2 to 3 ft.		3.50	30.00

## NATIONAL ROSE MEETING

The American Rose Society announces that its annual national convention will be held May 29 to 31 at the Municipal auditorium, Kansas City, Mo. Accommodations for delegates will be available at the Hotel Muehlebach, Kansas City. Exhibitors in the national rose show, to be presented in the exhibition hall of the auditorium, will compete for the Nicholson perpetual challenge bowl and the J. Horace McFarland memorial national award, as well as other trophies. Also on the convention program are tours of local private and public rose gardens, a rose-judging

school and a festive rose ball, scheduled for May 31.

Among the speakers at the formal sessions of the meeting, which will take place in the little theater of the auditorium, are Dr. Walter E. Lamert, Livermore, Calif.; Dr. Cynthia Westcott, Glen Ridge, N. J.; Dr. Griffith J. Buck, Iowa State College, Ames; Marlin W. Rogers, University of Missouri, Columbia; Dr. James E. Smith, University of Missouri; C. H. Lewis, Salem, Va.; Mrs. Gilbert Miller, Kansas City, Mo.; Mrs. Dorothy Stemler, Watsonville, Calif.; Richard Thomson, Wynnewood, Pa.; Martin Pashea, Independence, Mo.;

Ralph Dasher, Florence, Ala.; Leo Gordon, Kansas City; Mrs. Roy Underwood, East Lansing, Mich., and Dr. E. W. Lyle, Texas Rose Research Foundation, Tyler, Tex.

## MICHIGAN CONFERENCE

The Michigan Association of Nurserymen, in cooperation with the department of horticulture of Michigan State University, East Lansing, will present its 12th annual nursery and landscape management conference August 12 and 13 at the university's Kellogg Center. Beginning August 14, the day after the conference



## EVERGREENS, CONIFEROUS

## BROAD-LEAVED EVERGREENS

## SHADE AND FLOWERING TREES

Evergreens, Coniferous	Each	Each 50	Each 10 to 50 and up	Broad-leaved Evergreens	Each	Each 50	Each 10 to 50 and up	Shade and Flowering Trees	Per 10	Per 100
<i>Thuja occidentalis</i> , Berkman's Golden				Azaleas				Birch, European White		
15 to 18 ins.				6 to 8 ins.		Per 10		3 to 6 ft.	\$15.00	
19 to 24 ins.				8 to 10 ins.		\$ 7.50		6 to 8 ft.	20.00	
25 to 30 ins.				<i>Rhododendron</i> , Macrantha, Snow, White		10.00		8 to 10 ft.	30.00	
31 to 36 ins.				India				10 to 12 ft.	40.00	
37 to 42 ins.				Azaleas			13.50	Birch, Cut-leaved Weeping	25.00	\$200.00
43 to 48 ins.				10 to 12 ins.				6 to 8 ft.	35.00	300.00
49 to 54 ins.				<i>Macrantha</i> , Royalty, White India				8 to 10 ft.	45.00	375.00
55 to 60 ins.								10 to 12 ft.		
61 to 66 ins.								Cherry, Kwanzan Flowering		
67 to 72 ins.								4 to 5 ft.	29.00	
73 to 78 ins.								5 to 6 ft.	40.00	
79 to 84 ins.								Dogwood, pink		
85 to 90 ins.								3 to 4 ft., B&B	37.50	
91 to 96 ins.								4 to 5 ft., B&B	50.00	
97 to 102 ins.								Dogwood, white		
103 to 108 ins.								3 to 4 ft., B&B	25.00	
109 to 114 ins.								4 to 5 ft., B&B	32.50	
115 to 120 ins.								5 to 6 ft., B&B	45.00	
121 to 126 ins.								Linden, American		
127 to 132 ins.								6 to 8 ft.	25.00	
133 to 138 ins.								8 to 10 ft.	35.00	
139 to 144 ins.								Locust, Honey Thornless		
145 to 150 ins.								5 to 6 ft.	15.00	125.00
151 to 156 ins.								6 to 8 ft.	20.00	175.00
157 to 162 ins.								8 to 10 ft.	30.00	
163 to 168 ins.								10 to 12 ft.	42.50	
169 to 174 ins.								Magnolia soulangeana		
175 to 180 ins.								2 to 3 ft., B&B	30.00	275.00
181 to 186 ins.								3 to 4 ft., B&B	37.50	325.00
187 to 192 ins.								4 to 5 ft., B&B	50.00	
193 to 198 ins.								Maple, Cardinal		
199 to 204 ins.								Fraassen's Red-leaved		
205 to 210 ins.								6 to 8 ft., lightly br.	47.50	
211 to 216 ins.								Maple, Norway		
217 to 222 ins.								6 to 8 ft.	30.00	250.00
223 to 228 ins.								8 to 10 ft.	55.00	350.00
229 to 234 ins.								1 1/4 to 1 1/2-in. cal.	75.00	550.00
235 to 240 ins.								1 1/2 to 2-in. cal.	120.00	
241 to 246 ins.								2 to 2 1/2-in. cal.		
247 to 252 ins.								Maple, Scarlet		
253 to 258 ins.								5 to 6 ft.	25.00	
259 to 264 ins.								6 to 8 ft.	30.00	
265 to 270 ins.								Maple, Schwedler		
271 to 276 ins.								6 to 8 ft.	37.50	
277 to 282 ins.								8 to 10 ft.	62.50	
283 to 288 ins.								1 1/4 to 1 1/2-in. cal.	85.00	
289 to 294 ins.								1 1/2 to 2-in. cal.		
295 to 300 ins.								Maple, Silver		
301 to 306 ins.								6 to 8 ft.	12.50	110.00
307 to 312 ins.								8 to 10 ft.	20.00	175.00
313 to 318 ins.								10 to 12 ft.	37.50	350.00
319 to 324 ins.								1 1/2 to 2-in. cal.		
325 to 330 ins.								Maple, Sugar		
331 to 336 ins.								5 to 6 ft.	27.50	
337 to 342 ins.								6 to 8 ft.	35.00	
343 to 348 ins.								8 to 10 ft.	45.00	
349 to 354 ins.								1 1/4 to 1 1/2-in. cal.	60.00	
355 to 360 ins.								Oak (Bur, Pin, Red, Scarlet, White, Willow)		
361 to 366 ins.								5 to 6 ft.	25.00	225.00
367 to 372 ins.								6 to 8 ft.	35.00	300.00
373 to 378 ins.								Oak, Pin		
379 to 384 ins.								8 to 10 ft.		
385 to 390 ins.								1 1/4 to 1 1/2-in. cal.	57.50	450.00
391 to 396 ins.								Oak, Live		
397 to 402 ins.								3 to 4 ft., B&B	40.00	

NOTE: Ask for prices on larger quantities of fruit trees, shrubs, evergreens, shade and flowering trees. Truck delivery service available, at nominal cost, to points within 600 miles.

## WAYNESBORO NURSERIES

Phone: WHITEhall 2-8267

Waynesboro, Virginia

closes, the association's annual summer nursery trip will include visits to nurseries in Canada, New York, Pennsylvania, Ohio and Michigan, ending August 17.

## LOUISIANA SHORT COURSE

The Louisiana Association of Nurserymen will sponsor its seventh annual short course for nurserymen June 2 to 4 at Southwestern Louisiana Institute, Lafayette, according to Vice-president James Foret, of the Southwestern Louisiana Institute. Program topics will include liner production, new plant materials,

lawn care, estimating planting jobs, nematode control and fruits for the Gulf coast.

## MAIL-ORDER GROUP

The National Mail Order Nurserymen's Association will hold its summer meeting August 10 to 12, at the Hotel La Salle, Chicago, Ill., it has been announced by Roger L. Krider, secretary of the group.

## PENNSYLVANIA HOST

The Conard-Pyle Co. will be host to members of the Pennsylvania

Nurserymen's Association for the group's summer meeting, to be held on the grounds of the nursery at West Grove, Pa. August 13 has been set as the date for the meeting.

## VIRGINIANS SHIFT PLANS

The Virginia Nurserymen's Association will hold no summer meeting this year, according to Charles L. Otey, secretary-treasurer. Instead, the V. N. A. members are urged to attend the convention of the Southern Nurserymen's Association, at the Hotel John Marshall, Richmond, Va., August 24 to 26.

# KELTHANE

## helps prevent mite damage to TREES, FLOWERS, SHRUBS and ORNAMENTALS

Why put up with mite damage to your nursery or greenhouse plantings, when there's one sure way to prevent it? New Rohm & Haas **KELTHANE** miticide controls spruce mites, red spider mites, cyclamen mites and several others... even so-called "resistant" species.

One spraying of **KELTHANE** provides long-lasting residual action. No need to repeat spray for several weeks.

In recommended dosages, **KELTHANE** EC emulsifiable concentrate has a good margin of safety when applied to plants, buds and flowers. And there's no visible residue to hinder sales.

For extra-sensitive varieties, **KELTHANE** W wettable powder is suggested. Both **KELTHANE** formulations mix readily with water. Insecticides and fungicides may be included in the spray.

See your Rohm & Haas fieldman... or write direct for full information.

**KELTHANE** is a trademark, Reg. U.S. Pat. Off. and in principal foreign countries.

Chemicals for Agriculture

**ROHM & HAAS  
COMPANY**

WASHINGTON SQUARE, PHILADELPHIA 5, PA.

Representatives in principal foreign countries

### SOUTHERN CONVENTION

Dates for the 59th annual convention of the Southern Nurserymen's Association have been announced by Executive Secretary Leo B. Scott, Spartanburg, S. C. Meetings will be held August 24 to 26 at the Hotel John Marshall, Richmond, Va.

### ANNUAL TEXAS MEETING

The 1958 annual convention and trade show of the Texas Association of Nurserymen will be held August 24 to 27 at the Commodore Perry hotel, Austin, according to B. R. Fullingim, executive secretary.

### NUT GROWERS DATES

Meetings in May of interest to nut growers in the midwest have been announced as follows:

The Indiana Nut Growers Association will meet at the Tioga Orchards (Charles Risco), Monticello, Ind., May 25, with a pot-luck dinner at the home of George Westerhouse.

Michigan Nut Growers Association will meet at the Pittsford game area, Pittsford, Mich., May 18.

The Illinois Nut Tree Association will meet May 30 at the W. E. Bacon farm, Route 1, Box 70, Grayslake, Ill. Grafting demonstrations have been planned in Illinois for St. Clair county, May 15; Brown county, May 16, and Vandalia, May 17.

June 25, an organic garden tour to several fruit and nut orchards in the locality will be conducted as part of the American Natural Hygiene Association's convention program at St. Louis, Mo.

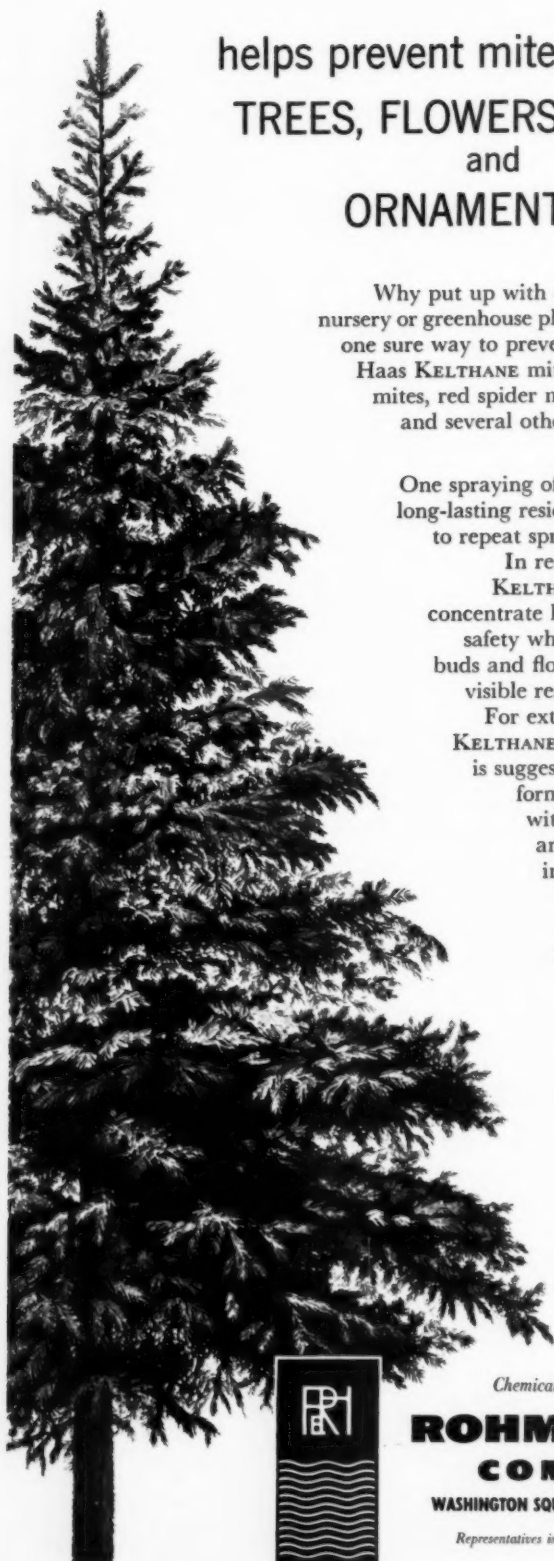
### ILLINOIS NUT GROWERS

The second annual meeting of the Illinois Nut Tree Association was held March 15, with the A. E. Staley Mfg. Co., Decatur, Ill., as hosts for nearly 50 members. Guests made a tour of the corn products factory after dinner.

Officers elected at the meeting were president, J. C. McDaniel, department of horticulture, University of Illinois, Urbana; vice-president, W. F. Sonnemann, 107 South Fourth street, Vandalia; secretary, Miss Clarice Hickox, 611 South Fourth street, Springfield; treasurer, George Hockenyo, 217 East Jefferson street, Springfield, and directors, Arthur W. Haas, farm adviser, Mount Sterling; Louis Gerardi, R. R. 1, Caseyville; Mrs. W. E. Bacon, R. R. 1, Box 70, Grayslake, and Royal Oakes, Bluffs.

Elected as the 1959 nominating committee were John E. Talbott, Linton, Ind., chairman; R. B. Best, Eldred, and L. C. Leighton, Arthur.

Richard Lockmiller, of the Staley



# CARTWRIGHT NURSERIES

COLLIERVILLE, TENN.

Phone: Ulysses 3-2352

## SPRING, 1958

We would like to take this opportunity to thank our customers for their patronage this past season, and to apologize for the small number of items which we are now able to offer for sale.

### CONIFERS

All of our Junipers are many times sheared, none of them less than eight times, and many of our arborvitae are also sheared. This stock is of specimen quality and guaranteed to please.

<b>Arborvitae, orientalis Berckmans</b> (Berckmans Dwarf Golden)	
15 to 18 ins.	\$1.25
18 to 24 ins.	1.60
<b>Arborvitae, orientalis Bonita</b>	
15 to 18 ins.	1.25
18 to 24 ins.	1.60
24 to 30 ins.	2.00
<b>Arborvitae, orientalis Excelsa</b>	
3 to 4 ft.	2.00
<b>Arborvitae, orientalis fruitlandi</b> (Dark Green Berckmans)	
18 to 24 ins.	1.50
24 to 30 ins.	1.75
<b>Arborvitae, American Dark Green</b>	
24 to 30 ins.	1.50
30 to 36 ins.	2.25
3 to 4 ft.	3.00
<b>Arborvitae, American Pyramidal</b>	
4 to 5 ft.	3.75
<b>Arborvitae, American compacta erecta</b> <i>globosa</i>	
18 to 24 ins.	1.75
<b>Arborvitae, American Globe (globosa)</b>	
18 to 24 ins.	2.00
<b>Chamaecyparis Cyano Viridis</b>	
18 to 24 ins.	1.25
24 to 30 ins.	1.75
30 to 36 ins.	2.00
<b>Juniper, heteri glauca</b>	
15 to 18 ins.	1.25
18 to 24 ins.	1.75
24 to 30 ins.	2.25
30 to 36 ins.	2.75
<b>Juniper, chinensis pfitzeriana</b> Many times sheared, very heavy	
12 to 15 ins.	1.10
18 to 24 ins.	2.00
24 to 30 ins.	2.75
30 to 36 ins.	3.50
<b>Juniper, pfitzeriana compacta</b>	
12 to 15 ins.	1.10
15 to 18 ins.	1.50
18 to 24 ins.	2.00
24 to 30 ins.	2.75
<b>Juniper, pfitzeriana nana (Armstrong's)</b>	
12 to 15 ins.	1.10
18 to 24 ins.	2.00
24 to 30 ins.	2.75
<b>Juniper, densa glauca</b>	
2 to 3 ft.	1.75
3 to 4 ft.	2.50
<b>Juniper, excelsa stricta</b>	
15 to 18 ins.	1.20
18 to 24 ins.	1.50
24 to 30 ins.	2.00
<b>Juniper, fastigiata</b>	
24 to 30 ins.	1.10
<b>Juniper, virginiana repandens</b>	
15 to 18 ins.	1.20
18 to 24 ins.	1.60
<b>Juniper, sabinia</b>	
12 to 15 ins.	.90
15 to 18 ins.	1.20
<b>Juniper, sabinia vancehron</b>	
15 to 18 ins.	1.20
18 to 24 ins.	1.60
24 to 30 ins.	2.25
<b>Juniper, virginialis</b>	
15 to 18 ins.	1.00
18 to 24 ins.	1.50
<b>Pinus nigra (Austrian Pine)</b>	
2 to 3 ft.	2.00
<b>Pinus strobus (White Pine)</b>	
2 to 3 ft.	2.00

### BROAD-LEAVED EVERGREENS

Our broad-leaved evergreens are well-grown specimen stock. Most of them many times sheared, and the quality is guaranteed to please you.

<b>Abelia grandiflora</b>	
2 to 3 ft.	\$1.00
3 to 4 ft.	1.25
<b>Elaeagnus fruitlandi</b>	
2 to 3 ft.	1.00
3 to 4 ft.	1.50
<b>Elaeagnus simoni</b>	
2 to 3 ft.	1.00
3 to 4 ft.	1.50
<b>Euonymus coloratus</b>	
18 to 24 ins.	1.00
2 to 3 ft.	1.25
<b>Euonymus patens</b>	
18 to 24 ins.	1.00
24 to 30 ins.	1.25
30 to 36 ins.	1.50
3 to 4 ft.	2.00
<b>Ilex cornuta femina</b>	
30 to 36 ins.	2.50
3 to 4 ft.	3.25
<b>Ilex crenata convexa (bullata),</b> well-sheared, compact	
12 to 15 ins.	1.00
15 to 18 ins.	1.25
18 to 24 ins.	1.75
24 to 30 ins.	2.25
<b>Ilex crenata Buxi, selected type similar</b> to convexa, but stronger grower	
15 to 18 ins.	1.00
18 to 24 ins.	1.50
24 to 30 ins.	2.00
<b>Ilex crenata rotundifolia, well-sheared,</b> very heavy	
12 to 15 ins.	.90
15 to 18 ins.	1.00
18 to 24 ins.	1.50
24 to 30 ins.	2.00

<b>Ilex opaca, seedlings, sheared</b>	
2 to 3 ft.	\$1.50
3 to 4 ft.	2.50
4 to 5 ft.	3.50
5 to 6 ft.	5.00
<b>Ilex East Palatka</b>	
2 to 3 ft.	2.00
3 to 4 ft.	3.00
4 to 5 ft.	4.00
5 to 6 ft.	5.00
<b>Ilex opaca howardi</b>	
2 to 3 ft.	2.00
3 to 4 ft.	3.00
4 to 5 ft.	4.00
5 to 6 ft.	5.00
<b>Ilex opaca Hume No. 2</b>	
2 to 3 ft.	2.00
3 to 4 ft.	3.00
4 to 5 ft.	4.00
5 to 6 ft.	5.00
<b>Illicium anisatum</b>	
2 to 3 ft.	1.25
<b>Jasmine, floridum</b>	
15 to 18 ins.	1.00
18 to 24 ins.	1.25
24 to 30 ins.	1.50
<b>Magnolia grandiflora</b>	
3 to 4 ft.	3.00
4 to 5 ft.	4.00
<b>Magnolia glauca</b>	
2 to 3 ft.	1.50
3 to 4 ft.	2.50
4 to 5 ft.	3.50
5 to 6 ft.	5.00
6 to 8 ft.	7.50
<b>Viburnum burkwoodi</b>	
18 to 24 ins.	1.50
24 to 30 ins.	1.75

### LINING-OUT STOCK

#### Liners—Potted

<b>Elaeagnus simoni, 3-in. pot</b>	\$0.12½
<b>Illicium anisatum, 2½-in. pot</b>	.12½
<b>Ilex crenata convexa, 2¼-in. rose pot.</b>	.15
<b>Ilex crenata repandens, 2¼-in. rose pot.</b>	.15
<b>Laurocerasus caroliniana, 2½-in. pot.</b>	.12½
<b>Lonicera yunnanensis, ready for cans,</b> 4-in. pot	.17½
<b>Nandina domestica, 2¼-in. rose pot.</b>	.10
<b>Thuja occidentalis nigra, 2¼-in. rose pot</b>	.15
<b>Thuja orientalis Excelsa, 2¼-in. rose pot</b>	.15
<b>Thuja orientalis newarkii, 2¼-in. rose pot</b>	.15
<b>Thuja orientalis Bonita, 2¼-in. rose pot.</b>	.15

#### Liners—Bed-Grown

<b>Ilex rotundifolia, 2-yr., sheared, 8 ins.</b>	\$0.12½
<b>Jasminum floridum, 1-yr.</b>	.12½

#### Liners—Field-Grown

<b>Juniper, heteri glauca, 1-yr., 6 to 8 ins.</b>	.10
<b>Juniper, heteri glauca, 1-yr., 8 to 12 ins.</b>	.12
<b>Transplants—from field rows</b>	
<b>Ilex rotundifolia, TT, 3-yr., 6 to 10 ins.</b>	.25
<b>Ilex rotundifolia, TT, 4-yr., 12 to 15 ins.</b>	.35
<b>Juniper, Pfitzer, T, 2-yr., 10 to 12 ins.</b>	.35
<b>Juniper, heteri glauca, T, 2-yr.,</b> 10 to 12 ins.	.30

**CARTWRIGHT NURSERIES, COLLIERVILLE, TENN.**



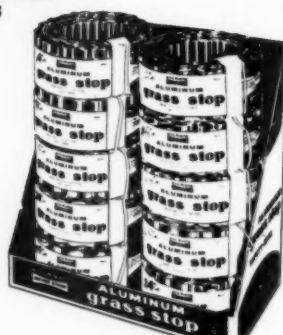
# NOW! the most complete line nichols NEVER-STAIN ALUMINUM grass stop



**EASY TO SELL!  
BIG PROFITS!**

## ALL HEAVY GAUGE WITH SAFETY EDGE

- The only grass stop guaranteed by Good Housekeeping
- Nationally advertised to over 63,000,000 prospects in leading shelter and garden magazines
- New colorful carry-out packaging
- Traffic stopping self-service display



### PACKAGING AND ORDERING DATA

PACKAGE NO.	LENGTH PER ROLL	GIRTH	COILS PER CARTON	SH'PG. WT. LBS PER CTN.
G-24*	24 ft.	4"	10	20
G-4*	40 ft.	4"	6	20
G-6**	40 ft.	4"	6	25
G-66	40 ft.	6"	6	37
G-8	40 ft.	8"	6	40

\*With special carry-out handle

\*\*EXTRA HEAVY weight — Individually Boxed



### RUSTPROOF ALUMINUM

## PLUS NEW! Flower Fabric

### IN 2 EXCITING FINISHES LUSTRE-BRITE and LUSTRE-GREEN

- Pre-sold through national advertising to over 63,000,000 prospects
- Guaranteed by Good Housekeeping
- New red-white-blue self-service display packaging
- Complete with all hardware and erection instructions



### PACKAGING AND ORDERING DATA

PACKAGE NO.	FINISH	LENGTH	WIDTH	PACKAGES PER CTN.	SH'PG. WT. LBS. PER CTN.
F-8	Lustre-Brite	96"	24"	6	21
F-8G	Lustre-Green	96"	24"	6	21



**nichols** WIRE & ALUMINUM CO.  
DAVENPORT, IOWA

firm, spoke on control of walnut-husk fly. Members voted to affiliate with the Northern Nut Growers Association and with the Illinois State Horticultural Society. Bundles of scionwood were exchanged, and two grafted walnut trees were planted as a memorial to the late Liberty Hyde Bailey.

Clarice Hickox, Sec'y.

### MUM GROUP ELECTS

Sidney B. Hutton, Jr., Conard-Pyle Co., West Grove, Pa., is the newly elected president of All-America Mum Selections, Inc. Kenneth P. Bird, Bristol Nurseries, Bristol, Conn., is vice-president, and W. Ray Hastings, box 675, Harrisburg, Pa., is executive secretary and treasurer. Carl O. Sjuln, president of Interstate Nurseries, Hamburg, Ia., is the retiring president and remains on the executive committee.

This is the first year of chrysanthemum awards from the nonprofit organization, which has sent releases and illustrations to over 1,700 publications and garden writers, with spring follow-up releases also mailed. In addition, radio and television help spread the news of these meritorious varieties.

Secretary W. Ray Hastings has answered 90 new requests from dealers for information and sources of wholesale plant supplies of 1958 award winners, Showpiece, a large decorative royal-rose chrysanthemum; Emperor, a big golden yellow decorative; Burning Bronze, the lively autumn-colored decorative, and Ruby King, a double red cushion mum. These are all hardy, outdoor garden mums, tested by the 15 trial grounds judges in different sections of the country.

Now also is the time to enter new mum varieties for the 1958 trials. Entry is open to everyone, but the closing date is at hand for entry applications. Application forms and full information should be requested from the secretary. Ten plants or rooted cuttings will be needed for each of the 19 trial grounds in 1958, with shipments to be made between May 10 and May 15.

### INSTALL NEW OFFICERS

New officers of the Colorado Springs Nurserymen's Association were installed in office at the group's annual banquet at Colorado Springs in February. The officers are Evert Wheeler, Upton Gardens, president, succeeding Henry Cannell, Cannell Nursery; Gernot Heinrichsdorf, Colorado Gardens, vice-president; Ray Dial, Dial Nursery, secretary-treasurer, and D. M. Rickner, Rick's Nursery, publicity chairman.



## ***Busiest worker on the job!***

# **NEW FORD TRACTOR-LOADER-TILLER-RAKE**

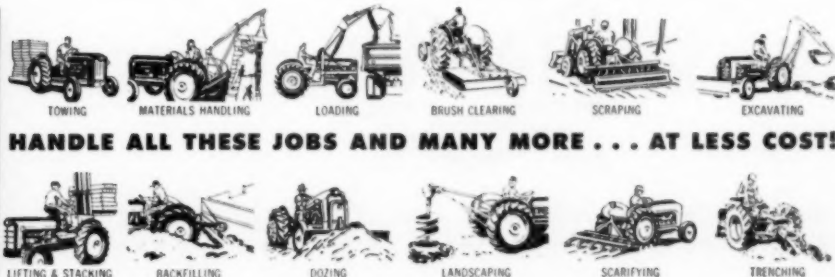
Make way for action when this new Ford rig hits the job! Its rear-mounted Dearborn-Roseman Tiller Rake scarifies, grades, levels and rakes—all in one operation... makes excellent seed beds at the lowest possible cost.

Up front is the rugged, compact Ford Industrial Loader—unmatched by any other loader in its power class. It has faster cycling, higher lift, longer reach, greater breakaway and more dump clearance than any other 1000-lb. capacity loader on the market. The 60" tread width bucket makes

easy work of dozens of loading, lifting, clean-up and materials handling jobs.

Mobile power source for these front and rear money-savers is the new Ford Powermaster, just one of many great new Ford gasoline, diesel and LP-Gas tractors—all available with such work-easy features as power steering, vari-weights and 12-speed over-under transmission. Get the full Ford story today from your nearby dealer, or write to Industrial Sales Department, Tractor and Implement Division, Ford Motor Company, Birmingham, Mich.

**YOU SEE MORE  
FORDS  
BECAUSE THEY SAVE  
MORE MONEY!**



# TRITHION®

## controls wide range of destructive insects and mites

### New Long-Lasting Insecticide-Miticide

Growers know that Trithion controls aphids, mites, scale insects, leaf hoppers and a host of other plant pests. It also does a terrific job on certain caterpillars and beetles.

You'll like Trithion's low-cost protection, too. Fact is one or two applications may last you all season. That's because Trithion not only has long-lasting residual action—but it also destroys mite eggs.

Whatever your special requirements may be, you'll find a Trithion formulation for every need. Ask your local dealer for:

**TRITHION DUSTS**—Formulations which contain 2% or 3% Trithion. Stable and compatible with most other insecticides or fungicides.

**TRITHION 4 FLOWABLE**—A water-base emulsion with 4 pounds of Trithion per gallon. Combines the low plant-injury advantage of wettable powder formulations with the ease of handling and good spreading qualities of liquid concentrates.

**TRITHION 25% WETTABLE POWDER**—A superior wettable powder formulation for use on orchard and field crops.

**TRITHION 4 EK**—A special formulation, for use *only* in oil sprays, designed to prevent alteration of the depositing characteristics of any type of spray oils.

For low-cost crop protection all season long, insist upon dependable Trithion. It pays for itself many times over in better crops, *bigger* profits!

®Trithion is a trademark registered in U. S. Pat. Off. and in principal foreign countries.



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North Portland • Weslaco • Lubbock • Harvey • North Little Rock

## COVER ILLUSTRATION

### Liriodendron Tulipifera Fastigiatum

Of the two known species of liriodendron, one is native to China and the other is our own well-known tulip tree, often called yellow poplar or tulip poplar and described as *Liriodendron tulipifera*. In native forest stands, the tulip tree, from which is milled the whitewood of commerce, often attains a height of more than 150 feet on a straight trunk practically devoid of lower branches. In the open, the tulip tree develops a broad, columnar or pyramidal head, is often branched almost to the ground and matures to considerably less stature.

Though the species type, when un-



Foliage of *Liriodendron tulipifera fastigiatum*.

crowded, has a loosely upright appearance, the axils are nearly right-angled, whereas the variety *fastigiatum* has a compact woody structure of multiple, erect branches, sharply angled from the main stem, forming a narrow, symmetric head. *L. t. fastigiatum* is not only a tree of pleasing proportions, but it also meets the requirements where a good-size, slender-growing, deciduous type is needed for functional use or accent value in landscape work.

The foliage of *L. t. fastigiatum* is a rich green, like the parent species, but it is somewhat smaller and not so long-stemmed. The flowers are attractive on the species. However, none of our specimens of *fastigiatum* has ever bloomed.

This species prefers rich, reasonably moist soil and will not do its best when poorly located. It is a tree



# ILGENFRITZ QUICK-SHIP LIST

## ROSES

The finest California and Oregon-grown. Stored under refrigeration at 33-degree condition—perfect.

### NONPATENTED ROSES

	1 to 9	10 to 19	20 to 29	100 to 250
No. 1	80c	70c	65c	249 up
No. 1 1/2	70c	65c	55c	55c

<b>RED SHADES</b>	<b>FLORIBUNDA ROSES</b>
Ami Quinard	RED SHADES
Christopher Stone	Floradora
Crimson Glory	Improved Lafayette
McGredy's Scarlet	Red Ripples
Polinettia	World's Fair
Red Radiance	<b>PINK SHADES</b>
<b>PINK SHADES</b>	Betty Prior
Picture	<b>YELLOW SHADES</b>
Pink Dawn	Gloria Mundi
Pink Radiance	<b>CLIMBING AND</b>
The Doctor	<b>RAMBLER ROSES</b>
<b>YELLOW SHADES</b>	<b>RED SHADES</b>
Eclipse	Cl. American Beauty
Golden Dawn	Cl. Blaze
Scour Thersa	Cl. Paul's Scarlet
<b>TWO-TONE</b>	<b>YELLOW SHADES</b>
<b>SHADES</b>	Cl. Gold Rush
Condesa de Santiago	<b>WHITE SHADES</b>
Edith Nellie Perkins	Cl. Silver Moon
Mme. Joseph Perrault	<b>TWO-TONE</b>
President Hoover	<b>SHADES</b>
<b>WHITE SHADES</b>	Cl. Talisman
Frau Karl Druschki	
K. A. Viktoria	
Rex Anderson	

Retail price	1 to 9	10 to 19	20 to 29	100 to 250
\$1.50	\$1.00	\$0.90	\$0.75	\$0.70
1.75	1.15	1.00	.875	.80
2.00	1.25	1.10	1.00	.95
2.25	1.40	1.25	1.125	1.05
2.50	1.60	1.40	1.25	1.20
2.75	1.75	1.50	1.375	1.30

### PATENTED FLORIBUNDA ROSES

	Retail Price
Circus (Pat. No. 1382), multicolor	\$2.50
Easter Parade (Pat. No. 1200), yellow	2.00
Fashion (Pat. No. 789), pink-coral	2.00
Goldlocks (Pat. No. 672), medium yellow	1.75
Jiminy Cricket (Pat. No. 1346), red	2.00
Ma Perkins (Pat. No. 1143), pink blend	2.00
Moonspire (Pat. No. 1460), cream	2.50
Pinocchio (Pat. No. 484), pink blend	1.75
Red Pinocchio (Pat. No. 812)	1.75
Red Wonder (Pat. No. 1341), red	1.75
Siren (Pat. No. 1197), red	1.75
Spartan (Pat. No. 1357), orange-red	2.75
Sumatra (Pat. No. 1572), red	2.50
Vogue (Pat. No. 926), pink blend	2.00
White Bouquet (Pat. No. 1415), white	2.50
Wild Fire (Pat. No. 1381), red	2.00
Yellow Pinocchio (Pat. No. 992), yellow	1.50

### PATENTED GRANDIFLORA ROSES

	Retail Price
Buccaneer (Pat. No. 1119), yellow	\$2.50
Carrousel (Pat. No. 1066), medium red	2.00
Montezuma (Pat. No. 1383), light red	2.75
Queen Elizabeth (Pat. No. 1259), pink	2.75
Roundelay (Pat. No. 1280), vivid red	2.50

### PATENTED CLIMBING ROSES

Cl. Crimson Glory (Pat. No. 736), dark red	2.50
Cl. Dr. J. H. Nicolas (Pat. No. 457), medium pink	2.00
Cl. Forty-Niner (Pat. No. 1094), red blend	2.50
Cl. Gladiator (Pat. No. 1524), rose-pink	2.75
Cl. Golden Showers (Pat. No. 1567), yellow	3.00
Cl. Morning Dawn (Pat. No. 1447), pink	2.50
Cl. Peace (Pat. No. 932), cream blend	2.25
Cl. Sutter's Gold (Pat. No. 1185), yellow blend	2.50

### PATENTED HYBRID TEA ROSES

Bingo (Pat. No. 1392), red	2.50
Blanche Mullerin (Pat. No. 594), white	2.25
Charlotte Armstrong (Pat. No. 455), red	2.25
Chrysler Imperial (Pat. No. 1167), red	2.50
Confidence (Pat. No. 1192), pink blend	2.25
Diamond Jubilee (Pat. No. 824), buff-yellow	2.00
First Love (Pat. No. 921), pink	2.25
Forty-Niner (Pat. No. 792), two-tone	2.25
Golden Masterpiece (Pat. No. 1284), yellow	2.75
Grandmere Jenny (Pat. No. 1148), yellow blend	2.25
Helen Traubel (Pat. No. 1028), pink blend	2.75
Konrad Adenauer (P. A. F.), red	2.50
Lady Elgin (P. A. F.), gold	2.50
La Jolla (Pat. No. 1103), pink blend	2.50
Las Vegas (Pat. No. 1496), pink	2.75
Love Song (Pat. No. 1360), two-tone	2.50
Midnight (P. A. F.), red	2.75
Mirandy (Pat. No. 632), garnet-red	2.25
Mojave (Pat. No. 1176), orange blend	2.75
New Yorker (Pat. No. 823), scarlet	2.25
Nocturne (Pat. No. 713), deep red	2.25
Peace (Pat. No. 591), cream blend	2.50
Pink Fragrance (Pat. No. 1493), pink	2.50
Pres. Eisenhower (Pat. No. 1217), red	2.25
Sun King (Pat. No. 1342), yellow	2.50
Sun Valley (Pat. No. 1135), yellow	2.50
Sutter's Gold (Pat. No. 885), orange blend	2.25
Tiffany (Pat. No. 1304), pink and gold	2.50
White Knight (Pat. No. 1359), white	3.00
White Swan (Pat. No. 1115), white	2.25

## REAL BARGAINS IN FINE SHRUBS

	Each 10 to 99	Each 100 and up
<b>COTONEASTER DIVARICATA</b>		
1 1/2 to 2 ft., B&B	\$1.85	\$1.60
2 to 3 ft., B&B	2.50	2.25
3 to 4 ft., B&B	3.25	3.00
1 1/2 to 2 ft., B.R.	.95	.85
2 to 3 ft., B.R.	1.25	1.10
3 to 4 ft., B.R.	2.00	1.75
<b>COTONEASTER FOVEOLATA</b>		
2 to 3 ft.	.55	.45
3 to 4 ft.	.65	.55
4 to 5 ft.	.85	.75
<b>EUONYMUS EUROPAEUS</b>		
2 to 3 ft.	.45	.40
3 to 4 ft.	.60	.50
4 to 5 ft.	.70	.60
<b>FORSYTHIA SPECTABILIS</b>		
2 to 3 ft.	.55	.50
3 to 4 ft.	.70	.65
<b>FORSYTHIA SPRING GLORY</b>		
2 to 3 ft.	.65	.60
3 to 4 ft.	.80	.75

	Each 10 to 99	Each 100 and up
<b>LIGUSTRUM REGELIANUM</b>		
1 1/2 to 2 ft.	.35	.30
2 to 3 ft.	.45	.40
<b>PHILADELPHUS CORONARIUS</b>		
1 1/2 to 2 ft.	.35	.30
2 to 3 ft.	.45	.40
3 to 4 ft.	.60	.50
<b>PHILADELPHUS VIRGINALIS</b>		
2 to 3 ft.	.45	.40
3 to 4 ft.	.60	.50
<b>PRUNUS TOMENTOSUM</b>		
2 to 3 ft.	.75	.70
3 to 4 ft.	1.00	.95
<b>RHAMNUS LAVALIERE</b>		
2 to 3 ft.	.40	.35
3 to 4 ft.	.55	.45
4 to 5 ft.	.85	.70
<b>SPIRAEA FROEBELI</b>		
1 1/2 to 2 ft.	.45	.40
2 to 3 ft.	.55	.45

## SHADE TREES

Straight trees. Dug with the roots. Priced fairly.

<b>Acer, Farness's Black</b>	Each
200 6 to 8 ft.	\$5.50
200 8 to 10 ft.	7.00
<b>Acer, Norway</b>	
800 6 to 8 ft.	2.65
1400 8 to 10 ft.	3.65
1000 1 1/2 to 1 1/2-in. cal.	4.90
450 1 1/2 to 1 1/2-in. cal.	7.00
<b>Acer, Schwedler</b>	
900 6 to 8 ft.	2.90
1500 8 to 10 ft.	3.90
600 1 1/2 to 1 1/2-in. cal.	5.75
100 1 1/2 to 1 1/2-in. cal.	8.00
<b>Acer, Silver</b>	
700 6 to 8 ft.	1.25
600 8 to 10 ft.	1.75
700 1 1/2 to 1 1/2-in. cal.	2.50
100 1 1/2 to 1 1/2-in. cal.	4.00
<b>Gleditsia, Moraine (Pat. No. 886)</b>	
300 6 to 7 ft., br.	3.00
200 7 to 8 ft., br.	4.25
400 8 to 10 ft., br.	7.00
<b>Platanus (Sycamore)</b>	
100 8 to 10 ft.	3.25
100 1 1/2 to 1 1/2-in. cal.	4.75
<b>Populus nigra italica</b>	
300 8 to 10 ft.	.85
200 10 to 12 ft.	1.00
<b>Salix blanda (Wisconsin)</b>	
300 6 to 8 ft.	1.25
200 8 to 10 ft.	1.50
<b>Salix Niobe</b>	
150 6 to 8 ft.	1.25
350 8 to 10 ft.	1.50
125 1 1/2 to 2-in. cal.	3.25
75 2 to 2 1/2-in. cal.	5.00
<b>Ulmus, Molle</b>	
200 8 to 10 ft.	2.00
150 1 1/2 to 1 1/2-in. cal.	3.25

## ORNAMENTAL TREES

Grown by experts. Properly trimmed. Well-branched.

<b>Acer ginnala</b>	Each
200 4 to 5 ft.	\$1.50
150 5 to 6 ft.	2.00
<b>Acer tataricum</b>	
225 4 to 5 ft.	1.50
160 5 to 6 ft.	2.00
<b>Betula lacinata</b>	
125 6 to 8 ft.	3.00
<b>Crataegus phaenopyrum (Washington)</b>	
100 5 to 6 ft.	5.50
200 6 to 8 ft.	7.50
<b>Crataegus Paul's Scarlet</b>	
150 6 to 8 ft.	5.00
<b>Prunus cistena</b>	Each
100 3 to 4 ft.	\$1.25
110 4 to 5 ft.	1.50
<b>Prunus Newport</b>	
4 to 5 ft.	1.20
300 5 to 6 ft.	1.45
240 6 to 8 ft.	2.00
<b>Prunus triloba</b>	
80 2 to 3 ft.	.75
<b>Prunus (Red-flowering Peach)</b>	
100 3 to 4 ft.	.75
70 4 to 5 ft.	1.00
100 5 to 6 ft.	1.25
<b>Sorbus aucuparia</b>	
60 8 to 10 ft.	3.50

**THE MONROE NURSERY CO.**

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*Ilgenfritz Since 1847*

MONROE, MICHIGAN

# RHODODENDRONS

In 2½-in. plant bands—cutting propagated. Ready in May and June. 25% deposit will hold. Please list second choice if substitution is permissible.

	Each		Each
Alice, deep pink, lily form.....	\$0.75	Kate Waterer, rose, yellow center.....	\$0.50
Anne Bedford, like Blue Peter, taller.....	1.00	Lady Clementina Miford, pink, fine.....	.75
Annie Endtz, beautiful pink.....	.75	Lady Stuart of Wortley, good pink.....	.75
Antoon Van Wellie, carmine-pink.....	.75	Lavender Girl, dainty lavender.....	.50
Azma, large salmon.....	.75	Loder's White, white, mauve edge.....	1.00
Azor, soft salmon-pink, lily form.....	.75	Marchioness of Lanadowne, rose, spotted.....	.50
Beauty of Littleworth, very good white.....	1.00	Michael Waterer, bright crimson.....	.50
Betty Wormald, large pink, blotched.....	.75	Mme. Chauvin, rosy-pink, blotched.....	.75
Blue Peter, lavender-blue.....	1.00	Mme. de Bruin, bright red.....	.75
Blue Tit, dwarf delft-blue.....	.25	Mme. Masson, white, yellow blotch.....	.50
Bow Bells, dwarf, large pink bloom.....	.75	Moonstone F. C. C., yellow, pink edge.....	1.00
Brie-A-Brac, dwarf, large white flowers.....	.75	Moser's Maroon, red new growth.....	1.00
Butterfly, pale lemon, chocolate blotch.....	.75	Mrs. A. T. de La Mare, white, green spot.....	.75
Ciliatum, pale pink, early.....	.50	Mrs. C. Pearson, mauve, spotted.....	.75
Cilpinense, low pink fading to white.....	.50	Mrs. E. C. Stirling, fine blush-pink.....	.75
Cornubia, blood-red.....	.75	Mrs. J. G. Millais, white, yellow eye.....	1.00
Cunningham White, hardy, floriferous.....	.50	Mrs. Mary Ashley, salmon-pink.....	.75
Cynthia, rosy-crimson.....	.50	Oreotrephes, species, mauve-pink.....	.25
Dr. A. Blok, pink, deeper edges.....	.75	Prince de Rohan, rosy-pink, blotched.....	.50
Dr. Stocker, ivory-white.....	.75	Princess Juliana, ruffled pink.....	.50
Elizabeth, deep red, low-growing.....	1.00	Purple Splendour, deep purple, rich.....	1.00
Fabia, orange-salmon bells.....	.50	Purpureum, deep orchid.....	.50
Fastuosum flore-pleno, double orchid.....	.50	Pygmalion, crimson-scarlet, black spots.....	.75
F. C. Fuddle, compact orange-red.....	.75	Racil, shell-pink dwarf.....	.75
Goldavorth Pink, free-flowering pink.....	1.00	Red Star, blood-red.....	.50
Gomer Waterer, large pale blush.....	.75	Romany Chai, orange-scarlet.....	.75
Grier's Splendor, large magenta, new.....	.75	Rosa Mundi, pale pink, very early.....	.50
Harvest Moon, creamy-white, blotched.....	1.00	Sappho, white, purple blotch.....	.75
Hugh Koster, bright crimson.....	.75	Sarita Loder, pale salmon-pink.....	.75
Jan Dekens, pink, fringed.....	.75	Snow Queen, pure white, fragrant.....	1.00
Jean Marie de Montagu, bright crimson.....	1.00	Tephropeplum, vivid magenta dwarf.....	.25
J. G. Millais, deep blood-red.....	.75	The Bride, white, greenish spots.....	.50
Jock, dark pink dwarf.....	.75	Trilby, deep crimson, dark splotch.....	.75
John Austin, large rosy-crimson.....	.50	Unique (Shcock), pale yellow.....	.50
		Unknown Warrior, bright red.....	.75
		Van Nes Sensation, large pale lilac.....	.75
		Vulcan, orange-scarlet.....	.75
		Warrior, rosy-crimson.....	.50
		White Pearl, blush changing to white.....	.50

## HARDY AZALEAS

In 2-in. bands in flats, 60 to flat. Ready May and June. 25% deposit will hold. All \$0.00 per flat. Varieties marked (G) are Gable and Glenn Dale, hardier hybrids.

Buccaneer (G), orange-red	Lorna (G), deep pink, double
Caroline Gable (G), Tyrian-red	Pink Gumpo, like white, only lovely pink
Captivation (G), rose-pink	Royalty (G), purple
Coral Bells, shell-pink	Rosaceflora, dwarf pink rosebud
Everest (G), white, chartreuse blotch	Rosebud (G), pink dwarf
Fedora, salmon-rose	Sherwoodl, orchid, very hardy
Gaiety (G), rose-pink	Sherwood's Red, Chinese-red
Glamour (G), rose-red	Sweetheart Supreme, deep pink
Gumpo, dwarf white, large bloom	Twenty Grand, deep rose-pink, almost double
Hexe, crimson, hose-in-hose	
Hinodegiri, popular scarlet	

## HOLLY

Transplanted in bands. Ready in May.

Green stem English Female	Green Male
Variegated English Female	

\$25.00 per 100.

## READY NOW

	Per 100	Per 1000
AUCUBA—Gold Dust, female, R. C.....	\$10.00	\$100.00
Green, female, R. C.....	10.00	.....
Green, dwarf, female, R. C.....	10.00	.....
HEATHER—Transplanted 100 to flat.....	7.50	.....
Irish Belle		
King George		
Mediterranean		
Springwood Pink		
Springwood White		
ILEX CONVEXA BULLATA, R. C.....	10.00	.....
LAUREL, ZABELIANA, R. C.....	10.00	100.00
LAURESTINUS, R. C.....	10.00	100.00
SKIMMIA, female, R. C.....	10.00	.....
SKIMMIA, male, R. C.....	10.00	.....

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Troutdale, Ore.

Member of A. A. N., O. A. N. and American Rhododendron Society

practically immune to attack by insect pests and not too prone to disease debilitation. It is definitely on the "cranky" side, as far as moving is concerned, and none but small trees, carefully dug, balled and burlapped, can be transplanted with any great degree of confidence.

The generic name, *liriodendron*, is from the Greek meaning lily and tree and likely refers to the shape of the typical flower.

The photograph from which the cover illustration was made was taken by Gavaghan & Dobson at Rochester, N. Y. J. G.

## EASTERN TREE OFFICERS

Edward Brarmann, city forester, Englewood, N. J., was installed at a recent meeting of the New Jersey Society of Certified Tree Experts as president of the association for 1958. Other new officers are Edward Chorpenning, Woodland Tree Expert Co., Morristown, vice-president, and Carl Witte, Essex county park system, re-elected secretary-treasurer. Ernest J. Ricca, superintendent, West Orange shade tree department, and Donald Krautter, Scotch Plains, are new members of the board of directors.

Mr. Brarmann, who also serves as vice-president of the New Jersey Federation of Shade Tree Commissions, is the author of several articles on shade tree problems and has been active in the promotion of a national Arbor day. Mr. Chorpenning is a past president and chairman of the board of trustees of the New Jersey Federation of Shade Tree Commissions. A member of the National Arborists Association, he has also acted in recent years as forester for Morris county.

Carl P. Witte has been secretary-treasurer of the New Jersey Society of Certified Tree Experts since the group's formation and is known as a leader in horticultural and arboricultural circles in the east. Mr. Ricca, engaged since 1937 in county and city tree work, is the first municipal arborist to be named a member of the Essex county board of agriculture. Donald Krautter has been active in promoting good business ethics and advanced methods of tree care in commercial arboriculture.

IMPROVEMENTS made recently at the nursery of A. D. Fields, Dodge City, Kan., include a new 30x50-foot lath house and a greenhouse glazed with Flex-O-Glass, in which Mr. Fields has installed infrared heating lamps and ultraviolet ray equipment.

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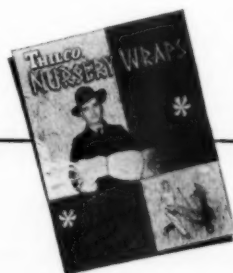
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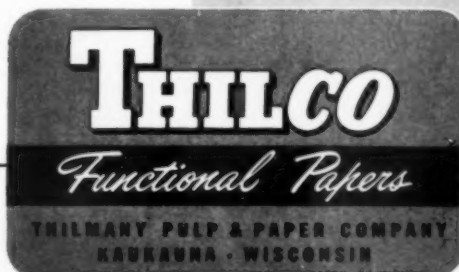


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# THIS BUSINESS OF OURS

*Reflections on the Problems of Nurserymen*

*By E. Sam Hemming*

## SEX IN TREES, SHRUBS -

Sex, the manner of blooming, in plants takes several forms. Plants may be monoecious, which means that both male (staminate) and female (pistillate) flowers are borne on the same plant. They may be dioecious, which means that the male and female flowers are on different individual plants. Flowers are said to be perfect when both the pistil and stamens are borne in the same blossom. Other expressions for this are bisexual or hermaphroditic.

There are also gradations of these characteristics. Flowers are androgynous when both staminate and pistillate flowers occur in the same inflorescence, or, you might say, are joined together. Plants are andromonoecious when both staminate and bisexual flowers are borne on the same plant and androdioecious when staminate and bisexual flowers are on different plants.

Knowledge of this is important to nurserymen in many ways. In some cases, the female plant (as in holly) is the more important. In others, the male plant is more widely used (as in ginkgo, because the seeds are objectionable). Sometimes the existence of separate sexes in a genus may be relatively unimportant, as it is in taxus, the female plants being specially propagated only when fruiting is desired.

In other cases a knowledge of the flowers has a great deal to do with propagation through pollination and fertilization and the production of seeds. While this information is usually easily found in manuals, I know of no book written specifically on the subject.

The occurrence of these different characteristics of flowering seems to follow no definite pattern. In other words, while plant genera and families tend to have the same type of flower, sometimes a genus with two species will have two types. A plant's degree of botanical development does not seem to have a bearing on the matter, either, for the ginkgo, which is considered a lower form of plant life, is dioecious, but so is *Baccharis halimifolia* (groundsel bush) which is a member of the composite family, botanically the highest or most complex.

Plantsmen know that ilex species

(hollies) are dioecious, but among the great majority of them the knowledge is at best vague. Not long ago, a customer asked me if there were not separate sexes in the maples. Without looking it up, I said I did not think so. Actually, we both were right. The flowers of acer species are andromonoecious or dioecious, which means there are three conditions possible.

## Holly Variation

Even in the holly there is some variation, for some plants may be polygamous, bearing both perfect and imperfect flowers on the same plant. This is especially true of *Ilex cornuta burfordi*. I have a fine stand

of seedlings grown from an isolated plant.

While the yew family (taxaceae) is usually dioecious, its closest relative, the pine family (pinaceae) is usually monoecious, with the exception of juniperus species, which are dioecious. Of course, the fruit of the Juniper is a berry, while all the other members of this family bear cones of various types. There is another gradation in this family, for the cedrus species (for example, *C. deodara*) bear cones that do not ripen until the second, sometimes the third, year.

The willow family, which includes populus and salix, is all dioecious. Nurserymen can take advantage of this by propagating the female popular to avoid the "cotton." Similarly, in the willow, the staminate catkins are dirty and can be avoided but the staminate form would not reseed itself. In the case of the pussy willow the staminate or male plant is propagated.

Members of the walnut family,

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	Per 100	Per 1000
2 to 4 ins., S.....	\$ 2.00	\$ 10.00
3 to 6 ins., S.....	3.00	17.50
6 to 9 ins., S.....	5.00	30.00
9 to 12 ins., S.....	9.00	70.00
12 to 18 ins., S.....	12.50	100.00
18 to 24 ins., S.....	30.00	.....

Freshly collected. Well rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, evergreens on request.

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# SCHROTH'S NURSERY

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## SEEDLINGS

**Excellent Root  
Systems, Hardy  
ORDER NOW!**

*Grown at High Altitude—In the Heart of the Original Pine Forests*

### WHOLESALE PRICES

#### PINE SEEDLINGS

	Per 100	Per 1000
Scotch Pine, Riga		
2-0, 2 to 4 ins. ....	<b>SOLD OUT</b>	
2-0, 4 to 8 ins. ....	<b>\$5.00</b>	<b>\$30.00</b>
3-0, 8 to 16 ins. ....	<b>7.00</b>	

Scotch Pine, German		
2-0, 2 to 4 ins. ....	<b>2.50</b>	<b>12.50</b>
2-0, 5 to 8 ins. ....	<b>5.00</b>	<b>30.00</b>

Scotch Pine, French		
2-0, 2 to 4 ins. ....	<b>2.50</b>	<b>12.50</b>
2-0, 4 to 6 ins. ....	<b>4.50</b>	<b>25.00</b>
2-0, 4 to 8 ins. ....	<b>5.00</b>	<b>30.00</b>

The above is Auvergne strain, short needle, blue-green color.

2-0, 3 to 5 ins. ....	<b>4.00</b>	<b>20.00</b>
2-0, 5 to 9 ins. ....	<b>6.00</b>	<b>35.00</b>

The above is Hagenau strain, long needle.

**NOTE:** In order to satisfy the individual demands of our many customers, we are offering the above strains of Scotch Pine. They are all highly recommended by our seed suppliers for good color, straight stems, compactness and fast-growing characteristics. They are grown from the best seed obtainable, under the best growing conditions, to develop the healthiest seedlings possible to withstand drought, disease and insect damage.

Austrian Pine		
2-0, 3 to 4 ins. ....	<b>3.00</b>	<b>15.00</b>
2-0, 4 to 6 ins. ....	<b>4.50</b>	<b>25.00</b>
3-0, 8 to 14 ins. ....	<b>5.00</b>	<b>30.00</b>
4-0, 12 to 18 ins. ....	<b>10.00</b>	

White Pine		
2-0, 3 to 5 ins. ....	<b>4.00</b>	<b>20.00</b>
3-0, 5 to 9 ins. ....	<b>SOLD OUT</b>	

**AMERICAN RED PINE, PONDEROSA PINE AND MUGHO PINE NOT AVAILABLE THIS YEAR.**

5% discount on 25,000 or more of combined species.  
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We guarantee all stock represented herein as to size and quality, or your money cheerfully refunded.

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#### SPRUCE SEEDLINGS

	Per 100	Per 1000
Norway Spruce		
2-0, 3 to 5 ins. ....	<b>\$ 3.00</b>	<b>\$ 20.00</b>
2-0, 5 to 8 ins. ....	<b>4.00</b>	<b>30.00</b>
3-0, 6 to 12 ins. ....	<b>SOLD OUT</b>	
4-0, 12 to 16 ins. ....	<b>10.00</b>	<b>60.00</b>

Colorado Blue Spruce, from select seed. Color very good.		
3-0, 3 to 5 ins. ....	<b>3.50</b>	<b>20.00</b>
3-0, 5 to 9 ins. ....	<b>5.00</b>	<b>35.00</b>
4-0, 6 to 12 ins. ....	<b>10.00</b>	<b>60.00</b>
4-0, 12 to 14 ins. ....	<b>20.00</b>	<b>120.00</b>

White Spruce		
2-0, 3 to 5 ins. ....	<b>3.00</b>	<b>20.00</b>
3-0, 5 to 9 ins. ....	<b>5.00</b>	<b>30.00</b>
4-0, 6 to 10 ins. ....	<b>6.00</b>	<b>35.00</b>
4-0, 9 to 14 ins. ....	<b>13.00</b>	<b>70.00</b>

Engelmann Spruce		
2-0, 2 to 4 ins. ....	<b>2.50</b>	<b>15.00</b>
2-0, 4 to 6 ins. ....	<b>4.00</b>	<b>25.00</b>
3-0, 6 to 12 ins. ....	<b>6.00</b>	<b>35.00</b>

Black Spruce (Mariana)		
3-0, 5 to 8 ins. ....	<b>SOLD OUT</b>	
3-0, 8 to 14 ins. ....	<b>SOLD OUT</b>	

#### FIR SEEDLINGS

	Per 100	Per 1000
Douglas Fir (Glaucia)		
2-0, 2 to 4 ins. ....	<b>\$3.50</b>	<b>\$20.00</b>
2-0, 4 to 8 ins. ....	<b>6.00</b>	<b>35.00</b>
Concolor Fir		
2-0, 2 to 4 ins. ....	<b>3.50</b>	<b>20.00</b>
2-0, 4 to 6 ins. ....	<b>5.00</b>	<b>50.00</b>

#### LARCH SEEDLINGS

European Larch		
3-0, 8 to 14 ins. ....	<b>SOLD OUT</b>	

**We Do Not Have Any Transplants of Any Kind,  
or Chestnut Seedlings for Spring Planting.**

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## INDIANA, PA.

## Quality Seedlings and Transplants

### PINE — SPRUCE FIR — HEMLOCK

	Per 100	Per 1000
<b>SCOTCH PINE</b> (Austrian Hill)		
2-yr., S., 4 to 6 ins.	\$ 5.50	\$ 30.00
3-yr., T., 3 to 6 ins.	9.00	60.00
4-yr., T., 5 to 10 ins.	10.00	70.00
<b>SCOTCH PINE</b> (German)		
2-yr., S., 4 to 6 ins.	6.00	32.50
<b>SCOTCH PINE</b> (French)		
2-yr., S., 2 to 4 ins.	2.50	12.50
2-yr., S., 4 to 6 ins.	5.00	27.50
<b>SCOTCH PINE</b> (Riga Rigensis)		
2-yr., S., 4 to 6 ins.	5.50	30.00
<b>AMERICAN RED PINE</b>		
2-yr., S., 2 to 4 ins.	5.00	25.00
3-yr., S., 5 to 10 ins.	5.50	30.00
3-yr., T., 3 to 6 ins.	6.50	40.00
4-yr., T., 4 to 8 ins.	7.50	50.00
<b>PONDEROSA PINE</b>		
2-yr., S., 3 to 5 ins.	5.00	25.00
<b>AUSTRIAN PINE</b>		
2-yr., S., 2 to 4 ins.	5.00	25.00
3-yr., S., 5 to 10 ins.	6.50	40.00
<b>MUGHO PINE</b> , sheared		
3-yr., S., 4 to 8 ins.	6.50	40.00
3-yr., T., 3 to 4 ins.	9.50	65.00
4-yr., T., 4 to 8 ins.	12.00	90.00
<b>WHITE PINE</b>		
2-yr., S., 3 to 4 ins.	5.50	30.00
3-yr., T., 3 to 6 ins.	6.50	40.00
<b>COLORADO BLUE SPRUCE</b> , from blue seed trees		
2-yr., S., 3 to 6 ins.	6.00	35.00
3-yr., S., 5 to 10 ins.	7.50	50.00
3-yr., T., 3 to 6 ins.	9.00	60.00
4-yr., T., 4 to 8 ins.	11.00	80.00
5-yr., T., 8 to 12 ins.	15.50	120.00
<b>NORWAY SPRUCE</b>		
2-yr., S., 4 to 6 ins.	5.50	30.00
3-yr., S., 6 to 12 ins.	6.50	40.00
3-yr., T., 4 to 9 ins.	7.50	50.00
4-yr., T., 6 to 10 ins.	9.00	60.00
5-yr., T., 8 to 14 ins.	10.00	70.00
<b>BLACK HILLS SPRUCE</b>		
3-yr., T., 3 to 6 ins.	6.50	40.00
<b>DOUGLAS FIR</b> , blue Colorado seed		
2-yr., S., 3 to 6 ins.	6.50	40.00
3-yr., T., 3 to 6 ins.	8.50	55.00
<b>DOUGLAS FIR</b> , gray Columbia seed		
2-yr., S., 3 to 6 ins.	5.00	25.00
3-yr., S., 5 to 12 ins.	6.50	40.00
4-yr., T., 4 to 6 ins.	9.00	60.00
<b>CONCOLOR, or WHITE FIR</b>		
2-yr., S., 3 to 6 ins.	7.00	45.00
<b>CANADIAN HEMLOCK</b>		
3-yr., T., 3 to 6 ins.	10.00	70.00
4-yr., T., 4 to 8 ins.	11.00	80.00
5-yr., T., 6 to 12 ins.	15.50	120.00
<b>AMERICAN ARBORVITAE</b>		
4-yr., T., 6 to 12 ins.	13.00	100.00
6-yr., T., 12 to 20 ins.	20.00	150.00
<b>CHINESE ARBORVITAE</b>		
3-yr., S., 5 to 12 ins.	9.00	60.00

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including the walnut, hickory and pecan, are monoecious, and to any one growing these plants the sex of the flowers is important. While an individual plant of this group bears both male and female flowers, it may not always fertilize itself, and cross pollination becomes necessary.

### Birch Family

The birch family is largely monoecious, which is unimportant in the birch genus, except for the fact that the American white birch reseeds. However, in another genus of this family, the corylus or filbert, sex is important for pollination and production of nuts. The early flowering and formation of pollen of these plants in the eastern states is the cause of many of the difficulties in producing crops in that section.

The beech family, which includes the beech, the chestnut and the oak, is also monoecious, though it shows some peculiarities of pollination. The beech has always puzzled me, because I find so few of its nuts fertile, even in beech woods. Another peculiarity of the beech is the lack both of variations in the one American species and of any tendency to produce hybrids with the exotic species.

On the other hand, the oaks produce many hybrids; there are a number of species, and they sometimes repeat the same hybrid. The oaks have another peculiarity, exhibited in the fact that about half the species mature their acorns the first year, while the others take two years.

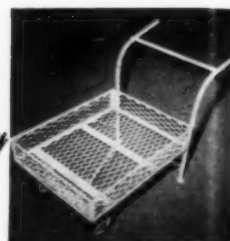
The chestnut readily hybridizes and has some tendency to be sterile. The sterility arises from the fact that the period when the pollen is ripe does not quite coincide with the period when the stigma is receptive. Incidentally, the male catkins have a most unpleasant odor when they are in bloom.

### Elm Characteristics

The Elm family is another group in which all the different flowering characteristics seem to be represented; plants may bear perfect flowers, may be monoecious, dioecious or polygamous. There are many genera, but only three are of interest to the trade—the elms, the hackberry and the comparatively rare zelkova. Elm flowers are usually perfect, and seeds are borne and ripened in abundance shortly after the flowers bloom. The Chinese elm (*Ulmus parvifolia*) and red elm (*U. serotina*) bloom in the early fall. The hackberry is both monoecious and polygamous, with the staminate flowers borne in clusters and the perfect ones in single blooms.

The mulberry is both monoecious

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1-lb. sifter ....	1.50	12, wt. 16 lbs.	12.00
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50-lb. sack ....	55.00	wt. 50 lbs.	55.00

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4. Rests on wide bottom; no blowing over in the frames.
5. Available in sizes to accommodate stock of any salable size.
6. Is neat and uniform in appearance, an asset in the sales area.

7. Tough enough to permit easy handling in potting shed and frame.

8. Easy for customer to remove—at once, week later or even a month after he takes stock home.

9. Saves time required to cut away metal cans before delivery.

10. Need not be removed before plant is delivered to customer.

11. Lightweight (but with all these qualities) to save on freight costs.

12. . . . and sufficiently low-priced so that it may be given away with the plant.

ONLY CLOVERSET POTS give you all these features. In addition, they come stacked in cartons with bottom flaps folded in, ready to use; even inexperienced workers in the potting shed can do a neat job with Cloverset Pots! Order now and be all set for profitable cash-and-carry sales.

Cloverset Pot Prices F.O.B. Kansas City, Mo., and Moorestown, N. J.

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						Per 100	Per 1000	Per 100	Per 1000
No. 0	5 1/4 ins.	5 ins.	6 ins.	200	Per 1000				
No. 1	6 1/4 ins.	6 ins.	7 ins.	100	210 lbs.	\$4.25	\$40.00	\$ 5.25	\$ 48.50
No. 2	8 1/4 ins.	7 ins.	8 ins.	100	340 lbs.	5.25	50.00	6.25	59.50
No. 3	9 ins.	8 ins.	9 ins.	100	535 lbs.	5.75	55.00	7.25	69.50
				100	600 lbs.	6.25	60.00	8.25	78.00
No. 4	12 ins.	12 ins.	...	25	Per 100	25 pots, \$7.70; 50 pots, \$14.60;			
					123 lbs.	75, \$21.75; 100, \$26.15;		30.00	265.00
						1000, \$231.00.			

(We do not break cartons)

## ORDER NOW; HAVE POTS ON HAND FOR SPRING POTTING!

CLOVERSET FARM, Dept. A  
105th and Wornall Rd.  
Kansas City 14, Mo.

Please send items checked; I enclose . . . . .c.

☐ Sample set of 5 pots, 50c (limit one).

☐ Complete information about Cloverset Pots.

NAME.....

FIRM.....

ADDRESS.....

Use coupon to order sample set.



105th and Wornall Rd. KANSAS CITY 14, MO.  
EASTERN DISTRIBUTOR, Moorestown Gardens, Moorestown, Burlington  
County, N. J.

## GRAFTED STOCK FOR SPRING, 1958, DELIVERY

Grafts are normally ready for shipment after April 15. Since there is a possibility of damage by late spring frost, kindly give a shipping date when you feel it is safe to plant without frost injury.

	Per 10	Per 100
<i>Acer palmatum atropurpureum</i> .....	\$7.50	\$65.00
<i>Acer palmatum dissectum atropurpureum</i> .....	7.50	65.00
<i>Acer rubrum columnare</i> .....	7.50	65.00
<i>Acer saccharum monumentale</i> .....	7.50	65.00
<i>Cornus florida alba plena</i> .....	6.50	55.00
<i>Cornus florida rubra</i> .....	6.50	55.00
<i>Cornus florida rubra Prosser</i> .....	7.50	65.00
<i>Cornus kousa chinensis</i> .....	6.50	55.00
<i>Engus sylvatica riversi</i> .....	6.50	55.00
<i>Ilex opaca femina</i> .....	7.50	65.00
Arden (Cheerful) Della Bradley Farage		
Hookstraw (Old Heavy Berry)		
<i>Ilex opaca maculata</i> .....	7.50	65.00
<i>Juniperus chinensis columnaris glauca</i> .....	6.50	55.00
<i>Juniperus chinensis keteleeri</i> .....	6.50	55.00
<i>Juniperus chinensis sargentii</i> .....	6.50	55.00
<i>Juniperus chinensis sargentii glauca</i> .....	6.50	55.00
<i>Juniperus virginiana burki</i> .....	6.50	55.00
<i>Juniperus virginiana canneri</i> .....	6.50	55.00
<i>Juniperus virginiana glauca</i> .....	6.50	55.00
<i>Juniperus virginiana pyramidi formis hilli</i> .....	6.50	55.00
<i>Magnolia rustica rubra</i> .....	7.50	65.00
<i>Magnolia soulangeana</i> .....	7.50	65.00
<i>Magnolia soulangeana nigra</i> .....	7.50	65.00
<i>Magnolia stellata rubra</i> .....	7.50	65.00
* <i>Pinus cembra</i> .....	7.00	60.00
* <i>Tsuga canadensis pendula</i> .....	6.50	55.00

\*Five needle pines cannot be shipped in the following states: Arizona, California, Colorado, Georgia, Kentucky, New Mexico, Nevada, South Carolina and Tennessee.

### TERMS

Prices in this list are net cash F.O.B. Mountain View, N. J., but the usual terms will be extended those of established credit. No goods sent C.O.D. unless 25% of amount is sent with order. 5 of one kind will be billed at the 10 rate. 25 at the 100 rate. 250 at the 1000 rate. Due to handling costs orders for less than \$10.00 cannot be accepted. From those not acquainted with our stock a trial order will be appreciated. Packing extra at cost.

**HESS' NURSERIES**  
P O. Box No. 788 Wayne, N. J.

## ILEX CONVEXA

Hardy, northern-grown stock. Heavy, well-sheared plants with exceptionally good color. Truck or trailerload.

18 to 24 ins.....	\$3.00
24 to 30 ins.....	3.75
30 to 36 ins.....	5.50
3 to 3½ ft.....	6.50

## ANGELICA NURSERIES

R. D. No. 1

Mohnton, Pa.

### FOR SPRING SHIPMENT

- 1200 *Acer palmatum atropurpureum*, seed-grown, 3-yr., T.
- 900 *Acer palmatum atropurpureum*, 1-yr., grafts
- 8000 *Barberry, thunbergi atropurpurea*, 2-yr., S., 6 to 9 ins.
- 2000 *Chamaecyparis plumosa aurea*, 2-yr., T.
- 3000 *Cornus florida*, 1-yr., S., heavy.
- 1000 *Cornus florida Prosser*, grafts, from pots
- 1000 *Ilex crenata latifolia*, 2-yr., T.
- 5000 *Taxus cuspidata capitata*, 2-yr., T.
- 2500 *Tsuga caroliniana*, 2-yr., T.

**VERKADE'S NURSERIES**  
NEW LONDON, CONN.

### QUALITY MERCHANDISE AT REASONABLE PRICES

## VANDERBROOK NURSERIES, INC.

MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

### For Quality Stock RICKERT NURSERIES

Successor to Moon's  
Established 1767  
MORRISVILLE, PA.

and dioecious and fertilizes readily. Another member of this family is the fig. The pollination of the flowers of the fig by the fig wasp is one of the interesting stories of pollination well known to nurserymen and plantmen. Still another member of this family is the Osage orange, once planted extensively in the west as hedge material. It is dioecious, so that fruiting can be avoided by planting only staminate plants.

### AMEND QUARANTINE 37

The United States Department of Agriculture has announced several amendments to the plant quarantine act, affecting the importation of nursery stock, plants and seeds. Three of the changes lessen restrictions on importation from authorized countries of vegetatively propagated fruit and nut understocks, allowing such stocks to be used for budding and grafting rather than just for propagation of stocks for the purpose. Under these amendments, importers will be allowed to bud or graft imported fruit and nut stocks while they are still in post-entry quarantine.

Another amendment provides for establishment of size-age limitations on certain plants, including certain species of cacti, cycads and yuccas, whose growth habits simulate the woody character of trees and shrubs.

### GARDENS IN CONTAINERS

Gardening in containers is the subject of the quarterly handbook of the Brooklyn Botanic Garden, Brooklyn, N. Y., for spring, 1958. Most of the material is concerned with well-known types of containers, such as window boxes, hanging baskets, tubs and boxes for roof gardens and the like, but to nurserymen, one article is of special moment in these days when there is interest in planting trees and otherwise adorning business streets. The planting of Mellon Square park, at Pittsburgh, Pa., is a unique undertaking, and the description by Frank Curto, director of the Phipps conservatory, at Pittsburgh, is certain to give ideas to any nurserymen or landscape firms whose services are sought in connection with proposed downtown city plantings.

HARRY GRAHAM, Gate City Seed & Nursery Co., Keokuk, Ia., has sold the nursery and landscaping division of his business to Howard Aldrich, who was formerly with Platt's Nursery, Waterloo, Ia. Mr. Graham will continue to operate the seed store.

# GROW YOUR OWN CONTAINER STOCK

Experience shows that potted liners give best results.

- Later planting possible
- Better stands
- More growth
- Bigger plants

You make more profit  
because you can mar-  
ket your plants sooner.

And, there is still plenty of time to plant potted liners in the nursery row.



## SHRUBS

	Each—Per 100	Per 1000
Almond (See Prunus)		
Berberis (Barberry)	\$0.25	\$0.20
Mentorensis, 2 1/4-in. pots		
Buddleia (Butterfly Bush)		
Alterniflora, 2-in. pots	.18	.16
Callicarpa (Beauty Bush)		
Dichotoma, 2 1/4-in. pots	.18	.16
Chaenomeles (Flowering Quince)		
Lagenaria Pink Lady, 2 1/4-in. pots	.18	.16
Colutea (Bladder Senna)		
Arborescens, 2 1/4-in. pots	.18	.16
Cornus (Dogwood)		
Paniculata, 2 1/4-in. pots	.18	.16
Cotoneaster		
Dichotoma, 2 1/4-in. pots	.18	.16
Cydonia (See Chaenomeles)		
Desmodium		
Penduliflorum, 2 1/4-in. pots	.20	.18
Deutzia		
Corymbosa (Himalaya Deutzia), 2 1/4-in. pots	.18	.16
Euonymus		
Alatus compactus, 2-in. pots	.20	.18
Exochorda (Pearl Bush)		
Grandiflora, 6 to 12 ins.	.12	.10
Forsythia (Golden Bell)		
Arnold's Giant, 2 1/4-in. pots	.20	.18
Intermedia specabilis, 2 1/4-in. pots	.18	.16
Lynwood Gold, 2-in. pots	.20	.18
Spring Glory, 2-in. pots	.20	.18
Viridissima bronxensis (Dwarf), 2-in. pots	.20	.18
Hypericum (St.-John's-wort)		
Hidecote, 2-in. pots	.20	.18
Kalmianum, 2-in. pots	.20	.18
Kolkwitzia (Beauty Bush)		
Amabilis, 2 1/4-in. pots	.22	.20
Lonicera (Bush Honeysuckle)		
Clayey's Dwarf, 2 1/4-in. pots	.22	.20
Fragrantissima, 2-in. pots	.18	.16
Korolkowi floribunda, 2-in. pots	.18	.16
Morrowi, 2-in. pots	.18	.16
Tatarica Wheeling, 2 1/4-in. pots	.18	.16
Zabell, 2-in. pots	.18	.16
Philadelphus (Mock Orange)		
Avananche, 2 1/4-in. pots	.18	.16
Belle Etoile, 2 1/4-in. pots	.18	.16
Coronarius, 2 1/4-in. pots	.18	.16
Enchantment, 2 1/4-in. pots	.18	.16
Mont Blanc, 2 1/4-in. pots	.18	.16
Virginialis, 2 1/4-in. pots	.18	.16
Physocarpus (Ninebark)		
Opulifolius nanus (Dwarf), 2-in. pots	.18	.16

	Each—Per 100	Per 1000
Prunus		
Glandulosa alba (White-flowering)		
Almond, 2-in. pot	\$0.18	\$0.16
Glandulosa rosea (Pink-flowering)		
Arguta, 2-in. pot	.18	.16
Jacquemont (Jacquemont Cherry), 2-in. pots	.18	.16
Ribes		
Odoratum (Flowering Currant), 2 1/4-in. pots	.18	.16
Salix (Willow)		
Discolor, 2 1/4-in. pots	.18	.16
Spiraea		
Anthony Waterer, 2-in. pots	.19	.17
Arguta, 2-in. pots	.18	.16
Froebell, 2 1/4-in. pots	.18	.16
Japonica coccinea, 2-in. pots	.20	.18
Mongolica, 2-in. pots	.18	.16
Thunbergi, 2-in. pots	.18	.16
Syringa (Lilac)		
Rothomagensis, 2 1/4-in. pots	.18	.16
Rothomagensis Cut-leaved (New), 2-in. pots	.20	.18
Rothomagensis, pink, 2 1/4-in. pots	.20	.18
Viburnum		
Opulus, 2 1/4-in. pots	.18	.16
Weigela		
Rosa, 2 1/2-in. pots	.18	.16

## VINES

	Each—Per 100	Per 1000
Celastrus (Bittersweet)		
Scandens (Fruiting strain), 2-in. pots	\$0.18	\$0.16
Lonicera (Honeysuckle)		
Goldflame, 2 1/4-in. pots	.20	.18
Japonica hians, 2-in. pots	.14	.12
Redgold (Tellmanniana), 2 1/4-in. pots	.20	.18
Sempervirens, Dreer's, 2-in. pots	.18	.16
Sempervirens, yellow, 2-in. pots	.18	.16
Yellownet, 2-in. pots	.18	.16
Polygonum		
Reynoutria, 2 1/4-in. pots	.20	.18

## EVERGREENS

	Each—Per 100	Per 1000
Juniperus (Juniper)		
Communis depressa plumosa, 2-in. pots	\$0.22	\$0.20
Sabina, 2 1/4-in. pots	.22	.20
Sabina vonchro, 2-yr., heavy tops, 2 1/4-in. pots	.27	.25

	Each—Per 100	Per 1000
Taxus (Yew)		
Cuspidata (Japanese Yew), 2 1/4-in. pots	.22	.20

## BROAD-LEAVED EVERGREENS

	Each—Per 100	Per 1000
Cotoneaster		
Divaricata, 2-in. pots	\$0.20	\$0.18
Euonymus		
Fortunei, 2-in. pots	.20	.18
Fortunei vegetus, 2 1/4-in. pots	.25	.20
Patens, Du Pont, 2-in. pots	.30	.25
Patens, Large-Leaved, 2-in. pots	.18	.16
Pyracantha (Firethorn)		
Coccinea, Vincent's Hardy Strain		
3-in. pots	.25	.22
2-in. pots	.20	.18
Coccinea pauciflora		
3-in. pots	.25	.22
2-in. pots	.20	.18

### The best containers are: PLANTAINERS

(See illustration above)  
No cutting necessary—plants tap out.  
Painted an attractive green.  
Write for prices.  
Shipped from warehouse in Ottawa.

# THE WILLIS NURSERY COMPANY

"Your Wholesale Nurserymen"  
OTTAWA, KANSAS



## FLICKINGERS' NURSERY SAGAMORE, PA.

The only bargain you get in seedlings is quality. Please compare ours for quality.

	Per 100	Per 1000
<b>Scotch Pine</b>		
2-yr., 2 to 4 ins. ....	\$ 2.50	\$ 12.50
2-yr., 4 to 8 ins. ....	5.00	25.00
(2-2), 6 to 12 ins. ....	18.00	90.00
(2-2), 12 to 18 ins. ....	20.00	100.00
<b>Austrian Pine</b>		
2-yr., 3 to 5 ins. ....	3.60	18.00
<b>Ponderosa Pine</b>		
3-yr., 6 to 10 ins. ....	5.00	25.00
3-yr., 12 to 18 ins. ....	6.00	30.00
<b>Colorado Blue Spruce</b>		
2-yr., 2 to 5 ins. ....	4.50	22.50
3-yr., 5 to 9 ins. ....	9.00	45.00
(2-2), 6 to 10 ins. ....	24.00	120.00
<b>White Spruce</b>		
4-yr., 6 to 12 ins. ....	8.00	40.00
<b>Canadian Hemlock</b>		
4-yr., 8 to 12 ins. ....	12.00	60.00
4-yr., 12 to 18 ins. ....	16.00	80.00
<b>Red-leaved Barberry</b>		
6-yr., T., 18 to 24 ins. ....	50.00	.....
5% discount on 25,000 or more of combined species of seedlings and transplants. Catalog free.		

"A friendly, efficient sales service"

## E. D. ROBINSON SALES AGENCY

38 S. Elm St. P. O. Box 247  
WALLINGFORD, CONN.

Representing:

Adams Nursery, Inc.  
Bristol Nurseries, Inc.  
Barnes Bros. Nursery Co., Inc.  
The Cheshire Nursery, Inc.  
Gulf Stream Nursery, Inc.  
Maxwell, Bowden & Rice, Inc.  
A. N. Pierson, Inc.  
Sunny Border, Inc.  
Verkade's Nurseries

Refer to our list in the  
March 1 issue on pages 36 and 37.

## LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list on printed stationery.

## DEERFIELD NURSERIES DEERFIELD, N. J.

## Yew—Hemlock—Juniper—Arboretum

In liners and finished stock.

LEGHORN'S EVERGREEN  
NURSERY CO., INC.

50 Geer St. Cromwell, Conn.

## OBITUARY

### Lester W. Needham

Lester W. Needham, 67, sales manager for Adams Nursery, Inc., Westfield, Mass., died suddenly March 12, at St. Augustine, Fla., during his return home from a vacation trip with his wife and friends.

Mr. Needham had served as president, secretary and executive committee member of the New England Nurserymen's Association. He was a frequent speaker before landscape and other horticultural groups and had served several times as a judge for the Boston flower show. Active in Masonry, he had also served as president of the Westfield Kiwanis Club and lieutenant governor of the organization in his district.

Born at Springfield, Mass., Mr. Needham was graduated from Massachusetts Agricultural College, now the University of Massachusetts, in 1914. After graduation, he was employed by Adams Nursery, Inc., for a short period; then joined the Farr Nursery Co., Wyomissing, Pa. He returned to the Adams Nursery in 1933, as sales manager, the position he had since occupied.

Mr. Needham had been a member of the Westfield park commission since 1951 and was elected chairman in 1954. Under his chairmanship, an extensive program of planting and park improvement had been carried out.

He is survived by his widow, the former Margaret Blake; a son, William, Jr.; a daughter, Mrs. George Whitney Searle, Jr., and three grandchildren.

### Elmer August Farley

Elmer August Farley, a florist and nurseryman of New Orleans, La., died suddenly March 17. Mr. Farley was born November 17, 1888, and attended school at New Orleans. Soon after his graduation, 46 years ago, he established a nursery on the site now occupied by the main Farley florists' shop and nursery on Gentilly boulevard. The E. A. Farley Nursery & Farms are managed at Mandeville, La., by E. A. Farley, Jr. Another son, Herman, manages the New Orleans establishment.

Mr. Farley was a former member of the American Association of Nurserymen and was a past president of the New Orleans Horticultural Society. He was also a member of the Louisiana State Nurserymen's Association and of several florists' groups and orchid societies. Surviving be-

## SUGAR MAPLE

for

**Streets—Parks—Forests**

*Long Life—Strength—Coloring*

Collected. Nursery-Grown.

Any quantity available.

1/2 to 12-in. cal.

Beech, Ash, Red Maple, Red

Oak, Birch and Shadblow

also available.

**R. H. ROGERS NURSERY**

COOPERSTOWN, N. Y.

## ILEX CRENATA CONVEXA

(Ilex bullata)

Owing to our unusual success in propagating this desirable item, we offer it at a very low price. Over 150,000 in stock. It is a very choice, very hardy, low-growing evergreen with shiny, dark green, convex, boxwood-like leaves. Grows fast into money, up to 2 ft., and there slows down. Ultimate size 3 ft. high and 4 ft. wide. Easier to grow than Yews and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect, low hedge.

Each  
6 to 8 ins., 2-yr., T. ....15c  
8 to 10 ins., 2-yr., T. ....20c

## PIERIS JAPONICA

Each  
4 to 6 ins., T. ....15c  
6 to 8 ins., T. ....20c

## JAPANESE BOXWOOD

Apple-green leaves; does well in sun or shade. Will tolerate dense shade. Very rapid-growing, good for foundation planting.

6 to 8 ins., 2-yr., T., \$10.00 per 100

Send for List of Unusual Plants

**ALANWOLD NURSERY**  
NESHAMINY, Bucks Co., PA.

## DWARF FRUIT TREES

Hardy, northern-grown, 1-year-old trees. Grafted on Malling stocks No. II, IV, VII and IX. Guaranteed free from insect pests or plant disease. Backed by more than 100 years of Leuthardt family experience in dwarf fruit trees. Send for prices. State your needs, soil conditions and varieties desired.

ALSO ESPALIER TRAINED FRUIT TREES

## HENRY LEUTHARDT

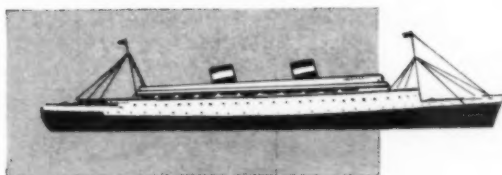
Port Chester · New York

# Help Wanted

To make more money, of course. It is really so easy if you'll give it a try. In these days of strong competition, if you can latch on to a great promotion and really give it a whirl—it can mean all the difference in the world in sales.

Here's an idea which we are sure you'll be able to promote to your customers . . . a hot new contest idea—"Name That Flower."

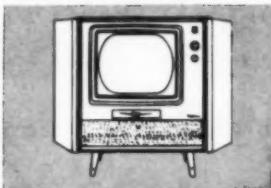
The contest: easy to enter, easy to win. And the prizes: \$10,000 worth—



Free vacation in Holland for two via Holland-America line.



Famous French car, Renault "Dauphine," fully equipped.



RCA Color Television Set with 21-inch tube.

Plus 100 other valuable prizes!

Prizes for the winners and for the dealers who sell the winners.

Who needs it? You do! Stop struggling to find more ways to sell more bulbs. Accept a little help . . . let the "Name That Flower" Contest be the keynote of your Fall bulb promotion. It will really give you the help of an extra salesman, for a good promotion tells as it sells.

And, "Name That Flower" Contest will teach and will sell. It will help you move the merchandise. It is the perfect starting point for this season's sales pitch on daffodil, tulip, hyacinth and crocus bulbs.

You can get a complete tie-in promotion package for your own use in promoting Dutch Bulbs—newspaper mats, streamers, posters, everything you need to help you sell more imported Dutch Bulbs than ever before!

Ask your Bulb Supplier about this contest promotion and all the sales boosters. He'll give you all the details, or write to:

**Associated Bulb Growers of Holland, Inc.**  
29 Broadway, New York 6, N. Y.

## NEW YORK STATE GROWN SEEDLINGS

Spring, 1958

	Per 100	Per 1000
<b>Scotch Pine—Famous Booneville Select Strain</b>		
Green year-round, straight-stemmed, premium trees.		
2-yr., S., 3 to 6 ins. ....	\$5.00	\$25.00
<b>Austrian Pine</b>		
2-yr., S., 3 to 6 ins. ....	5.00	25.00
<b>Collected Adirondack Balsam</b>		
4 to 8 ins. ....	7.00	35.00
<b>Collected Canadian Hemlock</b>		
5 to 9 ins. ....	7.00	35.00
9 to 12 ins. ....	9.00	60.00

Terms: 50% with order, balance C.O.D.

## STRATFORD EVERGREEN TREE NURSERY

Stratford, N. Y.

## HYBRID RHODODENDRONS

Grown in full sun in open fields. Compact plants, excellent foliage and well-budded.

**AMERICA: Red ROSEUM ELEGANS: Rose-Pink**

	Each 10 rate	Each 100 rate
15 to 18 ins., B&B .....	\$ 5.00	\$4.50
18 to 24 ins., B&B .....	7.00	6.50
2 to 2½ ft., B&B .....	8.50	8.00
2½ to 3 ft., B&B .....	11.00	...

## SPRINGFIELD NURSERY

Springfield, N. J.

### QUALITY LINERS

	Per 100
<b>Viburnum carlesii</b>	
4 to 12 ins., transplants.....	\$25.00
<b>American Holly</b>	
6 to 10 ins., transplants.....	27.50
<b>French Hybrid Lilacs, best varieties</b>	
4 to 8 ins., grafts.....	27.50
8 to 15 ins., grafts.....	37.50
<b>Pink-flowering Dogwood</b>	
10 to 15 ins., grafts.....	75.00

Send for new spring list.

### POSSUM HOLLOW NURSERIES

6909 Henley St.  
Philadelphia 19, Pa.

### QUALITY LINERS

In Wide Assortment  
**NURSERY SALES, INC.**

525 Stevens Ave., P. O. Box 295  
RIDGEWOOD, N. J.  
Gl. 4-6848

## NURSERY STOCK

Per 100 Per 1000

<b>Red-leaved Barberry</b>		
2-yr., S., 9 to 12 ins. \$	6.50	\$50.00
2-yr., S., 12 to 18 ins.	10.00	75.00
Row run, 9 to 18 ins.	7.50	60.00
<b>Cornus florida (White Dogwood)</b>		
1-yr., S., budding size.	6.00	50.00
1-yr., S., below budding size .....	4.50	35.00

Ask for list.

## BROUWER'S NURSERIES

Box 25 New London, Conn.

## HOLLIES

One of the most complete collections of the better named varieties of American and English holly, 3 to 6-inch pots. Field plants, 2 to 5 ft. Send for list.

**ANGELICA NURSERIES**  
R. D. 1 MOHNTON, PA.

sides the two sons are the widow and three daughters.

**L. A. Reynolds**

L. A. Reynolds, 83, who operated L. A. Reynolds Co., Inc., Winston-Salem, N. C., for 32 years, died recently at a Winston-Salem hospital, after a period of declining health and two weeks of serious illness.

He had served several terms on the Forsyth county, South Carolina, school board and was a school committeeman in his district. He was a member of the Lewisville Civic Club.

Survivors include his widow, the former Bessie Binkley; six sons, G. G., Frank T., Herbert, Dan F., Porter G. and Thomas G., and a daughter, Ruth Reynolds. His sons have carried on the business since his retirement in 1947.

## NEW JERSEY TRADE RISE

Production of ornamental trees, shrubs and other plants is one of the fastest-growing agricultural businesses in New Jersey, according to reports compiled by the division of plant industry of the state department of agriculture. The reports indicate that there were 827 nurseries in the state last year, as compared to 490 in 1948 and 586 in 1953. In an article appearing recently in a Plainfield, N. J., newspaper, the great upswing in residential development in New Jersey was cited as the chief factor in the rapid expansion of the state's nursery industry, which now holds fourth place among New Jersey agricultural enterprises.

Bergen county leads in the number of nurseries, with 132 establishments reported. A total of 7,246 acres in New Jersey were devoted to the production of nursery stock during 1957, with evergreen stock occupying 3,059 acres. Flowering trees and shrubs were grown on 1,579 acres, and substantial acreages were utilized for production of deciduous shade trees and broad-leaved evergreens.

Acreage used for the last-named item has tripled in the past 10 years, and that devoted to deciduous shade trees has more than doubled. In addition to the outdoor acreage, department of agriculture inspectors reported that 3,593,300 square feet of greenhouse space (not including space used exclusively for flowers) was used by the industry last year.

**KEGEL ORCHARDS CO.** is the new name of the company formerly known as Gays Mills Fruit Farms, Inc., Gays Mills, Wis.





## "FILON FIBERGLASS GREENHOUSES COST US 57% LESS!"

*say Dick and George Oki, Oki Nursery, Perkins, California  
after two years' growing experience.*



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# Texans Hold First Landscape Seminar

## Discuss Turf Management and Plant Materials, View Research Projects

By George Fisher

More than 50 registrations marked the first annual landscape design seminar, March 12 to 14, sponsored by the Agricultural and Mechanical College of Texas. The seminar was conducted in the Memorial student center, on the campus at College Station, Tex. The first morning was devoted to registrations and to the midyear meeting of the Texas Landscape Association, reported elsewhere in this issue.

The first sessions of the seminar got under way at 1:30 p.m., with Ralph Ellis Gunn, landscape architect, Southscapes, Houston, as chairman. The dean of the college of agriculture, Dr. J. C. Miller, gave the address of welcome, in which he stressed the role of the landscape architect and urged that efforts be made to direct more students into the profession.

### Keynote Address

The main speaker of the seminar, Theodore Osmundson, Jr., Osmundson & Staley, San Francisco, Calif., then delivered the keynote address, "The Landscape Architect's Past and Potential in Molding Our Environment." Mr. Osmundson stated that treatment of the land and shaping it for man's use stems from earliest times, when man feared the environment and proceeded to modify it to suit his needs.

In tracing the history and accomplishments of the landscaping profession in our own country, the speaker stated that, although the period of depression was a setback in some respects, it was rich in other ways. Between 1929 and 1940 great development was made through public works in planning and setting the policies for public recreation lands, such as national parks and national forests. The freeway and parkway, which set the standards for the interstate highway system, were originated in this period. The professional city planner also came into the picture in this period.

The speaker asserted that only a small percentage of the approximately 1,000,000 acres annually being utilized for expanded urban development is being planned adequately. Much of this expanded development is destined for slum conditions unless the landscape architect is given opportunity to do his work.

Thomas Bullock, partner in the firm of Caudill, Rowlett, Scott & Associates, Bryan, Tex., spoke next on "The Architect's Attitude Toward Landscape Architects." His firm is known for its designs of public schools, and he used slides showing schools and school grounds to illustrate his points.

Mr. Bullock considers that the day of the architect's doing all of the planning for a school plant is past. Most progressive architectural firms recognize this and have landscape architects on their staffs working with the architect in all planning phases. School grounds are among the most difficult to treat, as they must be attractive and create a pleasant environment for the pupils attending the school, but they must be practical and easily maintained with minimum funds, as the public is reluctant to provide maintenance funds for school grounds.

The seminar group held its banquet the first evening, after which

Mr. Osmundson gave a talk on "Residential and Public Landscape Projects in California" illustrated with an excellent selection of colored slides. The public was invited to this session. The work of several prominent west coast landscape architects was shown. Of special significance was the high quality of landscape treatment being given to commercial shopping centers and industrial units in California's larger metropolitan areas.

In the San Francisco bay region alone, Mr. Osmundson stated, about one square mile per month is now being devoted to suburban housing, with 30 per cent of this area being required for roads and driveways. It is, in one respect, a wasteful process, he contends, as this development includes some of the most fertile and productive level land formerly in intensive agricultural use.

At the banquet, Prof. Robert F. White, of the A. and M. College, who was in charge of the seminar,

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### LANDSCAPE-SIZE SHRUBS

	Per 10	Per 100
<i>Clethra alnifolia</i>		
18 to 24 ins., clumps.....	\$ 4.00	\$ 35.00
2 to 3 ft., clumps.....	6.00	50.00
<i>Ilex verticillata</i>		
2 to 3 ft., clumps.....	6.00	50.00
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<i>Viburnum cassinoides</i>		
2 to 3 ft., clumps.....	6.00	50.00
3 to 4 ft., clumps.....	8.00	70.00
<i>Viburnum dentatum</i>		
2 to 3 ft., clumps.....	5.00	40.00
3 to 4 ft., clumps.....	7.00	60.00
4 to 5 ft., clumps.....	9.00	70.00

### CLUMP BIRCH

<i>Paper Birch</i>		
4 to 6 ft., 3 stems and up....	40.00	
6 to 8 ft., 3 stems and up....	60.00	
<i>Gray Birch</i>		
4 to 6 ft., 3 stems and up....	30.00	250.00
6 to 8 ft., 3 stems and up....	45.00	350.00

### PAPER BIRCH

<i>Betula papyrifera</i>		
6 to 8 ft., shows color.....	12.00	100.00
All stock is first-quality collected material		

### LINING-OUT STOCK

	Per 100	Per 1000
<i>Acer saccharum</i>		
2 to 3 ft.....	\$ 15.00	
3 to 4 ft.....	30.00	
4 to 6 ft.....	70.00	
6 to 8 ft.....	125.00	
<i>Betula papyrifera</i>		
1 to 2 ft.....	12.00	\$100.00
2 to 3 ft.....	15.00	120.00
4 to 6 ft.....	40.00	
<i>Clethra alnifolia</i>		
6 to 18 ins.....	8.00	70.00
<i>Ilex verticillata</i>		
1 to 2 ft.....	12.00	100.00
<i>Syringa vulgaris</i>		
1 to 2 ft.....	8.00	70.00
<i>Viburnum acerifolium</i>		
6 to 18 ins.....	15.00	120.00
<i>Viburnum cassinoides</i>		
1 to 2 ft.....	9.00	80.00
<i>Viburnum dentatum</i>		
1 to 2 ft.....	9.00	80.00

### HEMLOCK SEEDLINGS

<i>Tsuga canadensis</i>		
6 to 9 ins.....	5.00	30.00
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Attach to End-o Rak or display separately. Colorful folder shows folks what product will do the best job and how to use it. A terrific "do-it-yourself" manual!

## 3 New End-o Store Posters

Featuring popular cartoon characters Dot and Danny. Many variations in copy to fit your needs. Ask your Swift representative for them.



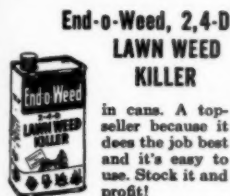
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in cans. A top-seller because it does the job best and it's easy to use. Stock it and profit!



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New! End-o-Weed now in disposable applicator you attach to garden hose. Save 'em work and you make money!



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Safe and sure protection (and profits, too!) Handy dust gun applicator, refills and 2-lb. canisters.

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Most effective formula ever developed. Light, uniform dusting protection. 10-oz. dust guns, refills and 20-oz. canisters.



## PLUS—these other popular, fast moving Swift products!

**Instant Vigoro Complete**  
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**Lawn Insect Control**  
(Dust or Liquid)

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Vigoro Complete Rose Food • Special Vigoro for Camellias and Azaleas  
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## LARGE LANDSCAPE MATERIAL

- 14 Amelanchier, 15 to 18 ft.  
 5 Biota aurea conspicua, 12 to 14 ft.  
 25 Biota aurea nana, 2 1/2 to 3 ft.  
 11 Biota elegantissima, 10 to 12 ft.  
 165 Cercis canadensis, 10 to 16 ft.  
 90 Chamaecyparis plumosa aurea, 4 to 8 ft.  
 30 Chamaecyparis pisifera aurea, 8 to 12 ft.  
 10 Chamaecyparis filifera aurea, 7 to 8 ft.  
 24 Chamaecyparis obtusa crispata, 9 to 12 ft.  
 60 Chamaecyparis squarrosa velutina, 10 to 14 ft.  
 15 Chamaecyparis nootkatensis pendula, 8 to 9 ft.  
 25 Crataegus phenopyrum (cordata), 15 to 18 ft.  
 4000 Cornus florida, 7 to 20 ft.  
 8 Halesia tetraptera, 12 to 15 ft.  
 11 Juniperus canerti, 18 to 20 ft.  
 18 Juniperus depressa plumosa, 6 to 8-ft. spread  
 10 Juniperus horizontalis, 7 to 8-ft. spread  
 6 Juniperus pfitzeriana compacta, 4 to 5 ft.  
 20 Juniperus virginiana glauca, 14 to 18 ft.  
 12 Magnolia, mixed, 9 to 12 ft.  
 9 Picea densata glauca, 14 to 18 ft.  
 7 Picea koyamali, 14 to 16 ft.  
 30 Picea pungens, 14 to 20 ft.  
 30 Pinus mugho, 4 to 10-ft. spread  
 6 Pinus strobus, 15 to 16 ft.  
 16 Pinus thunbergii, 12 to 14 ft.  
 15 Rhododendron maximum, 6 to 8 ft., large clumps  
 10 Rhododendron carolinianum, 4 ft., clumps  
 85 Spiraea vanhouttei, 5 to 6 ft.  
 600 Syringa hybrid seedlings, 6 to 9 ft.  
 560 Taxus capitata, 4 to 7 ft.  
 30 Taxus brownii, 5 to 6 ft.  
 325 Taxus hicksii, 5 to 8 ft.  
 9 Taxus repandens, 6 to 7-ft. spread  
 1240 Viburnum carlesii, 2 to 5 ft.

## SHADE TREES

- 260 Pin Oak, 3 to 6-in. cal.  
 52 Sweet Gum, 4 to 7-in. cal.  
 45 European Beech, 3 to 5-in. cal.  
 60 Red Oak, 4 to 7-in. cal.  
 12 Sugar Maple, 3 to 7-in. cal.

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### TSUGA CANADENSIS

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For 40 years  
 one of America's  
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announced that of the four top award winners in the 1957 national annual landscape exchange problem, two were students in landscape design at the college. The other two winners were students at Michigan State University.

### Second Day's Sessions

The first speaker in the morning session of the second day was Dr. Ethan C. Holt, A. and M. department of agronomy, who was introduced by Professor White, chairman for the day. Dr. Holt spoke on "Turf Management," as directly related to southern regions. He stated that more money is expended annually for turf than for any other horticultural crop and more water is used for maintenance of turf than for that of all other ornamentals.

Turf in the landscape is essential and is used both from the aesthetic as well as the utility standpoint. The speaker stated that the perfect turf would be easily established, grow well in sun or shade, require a minimum of watering and mowing, have no disease and insect pests and remain green the year around.

He suggested that landscape architects specify vegetative strains of Bermuda grass whenever possible, as these produce a turf superior to seedling turf in that it is finer-textured, has a denser habit of growth and usually has no seed heads. Some important vegetative varieties of Bermuda being used in the south are Tiff lawn, Tiff green and, in Texas, the new Tex-turf 10. Some newer strains of Zoysia were discussed, but their disadvantages outweigh their advantages in Texas, the main objection being their slowness in establishment as a suitable turf.

The rest of the morning session was given to an extended slide lecture by Professor White, entitled "Review of Contemporary Landscape Design as Practiced Throughout the United States." Landscape projects of seven of the country's leading landscape architects were shown, covering the main geographical regions in the country. The slides were discussed and questions answered by Professor White and Mr. Osmundson.

The afternoon session began with an illustrated lecture by John W. MacQueen, former assistant professor in plant materials at A. and M. and now head of the grounds maintenance department at the college. Mr. MacQueen's subject was "Woody Plants of Landscape Significance."

He classified woody plants into groups of ground cover plants, vines, low shrubs (one to three feet high),

## MORE FINER LINERS!

	Each	Each
	per 100	per 1000
<b>TAXUS MEDIA KELSEYI</b> (Berrybush Yew)		
Rooted cuttings, 6 ins.	\$0.11	\$0.10
Rooted cuttings, 8 ins.	.13	.12
6 to 12 ins., 1-yr., C, T, BR.	.25	..
6 to 9 ins., 2-yr., C, T, BR.	.40	..
<b>TAXUS MEDIA VERTICALIS</b> , New, slender, tall		
A—Rooted cuttings, 6 ins.	.14	.13
B—2 1/4-in. pot, C, T, 1-yr.	.35	.32 1/2
C—6 to 8 ins., 2-yr., C, T, BR.	.50	..
<b>FLUSHING</b> , A, B, C:		
<b>GRANDIFOLIA</b> , A, B, C:		
<b>PILARIS</b> , A:		
<b>PYRAMIDALIS</b> , A, B:		
<b>ROBUSTA</b> , A, B:		
<b>STRICA</b> , A, B, C:		
<b>VIRIDIS</b> , B, C:		
<b>TSUGA CANADENSIS</b> (Canadian Hemlock)		
4 to 6 ins., S, T, BR.	.20	.18
6 to 8 ins., S, T, BR.	.30	..
2 1/4-in. pot, S, T, 6 to 8 ins.	.35	..
<b>TSUGA CANADENSIS PENDULA</b> (Sargent's Weeping)		
2 1/4-in. pot, grafts	1.00	..
<b>VIBURNUM BURKWOODI</b>		
1-yr., S, BR.	.06	.05
1-yr., S, BR, HWY.	.09	.07 1/2
2 1/4-in. pot, C, T, 1-yr.	.22 1/2	.20
<b>VIBURNUM CARLESI</b> (Fragrant Viburnum)		
2 1/4-in. pot, C, T, 1-yr.	.30	..
<b>VIBURNUM DILATATUM IMPROVED</b>		
3 to 6 ins., S, 1-yr., BR.	.10	.08 1/2
6 to 12 ins., S, 1-yr., BR.	.12 1/2	.11
<b>VIBURNUM SARGENTI</b> (Sargent Cranberrybush)		
3 to 6 ins., S, 1-yr., BR.	.06 1/2	.05
6 to 12 ins., S, 1-yr., BR.	.07 1/2	.06 1/2
<b>VIBURNUM SETIGERUM</b> (Tea Viburnum)		
3 to 6 ins., S, 1-yr., BR.	.07 1/2	..
<b>VIBURNUM TOMENTOSUM</b> (Doublefile Viburnum)		
2 1/4-in. pot, C, T, 1-yr.	.20	.18
<b>VIBURNUM TOMENTOSUM Plicatum</b> (Japanese Snowball)		
2 1/4-in. pot, C, T, 1-yr.	.25	..

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25 at 100 rate, 250 at 1000 rate  
(less than 25 add 20%—minimum 10)  
BR—bare-rooted; C—grown from cutting; G—  
grown from grafts; HVY—heavier than No. 1; S—  
grown from seed; SB—soil ball; T—1 for each  
transplanting. Each Each  
per 100 per 1000

**ACER PALMATUM ATROPURPUREUM**  
(Japanese Red Maple)  
2 1/4-in. pot, S, T, 6 to 9 ins., June, \$0.30 \$0.27 1/2  
**ACER PALMATUM OSHIU BENI**  
(Bright Red Japanese Maple)  
3-in. pot, C, TT, 2-yr., 8 to 12 ins., 1.00 .90  
**ACER SACCHARUM MONUMENTALE**  
(Sentry Sugar Maple)  
2 1/4-in. pot, G, .85 ..

**AZALEAS**  
**BARBARA**, New! Bright rose-pink.  
**NANCY**, New! Excellent frilled hose-in-hose pink.  
**WENDY**, New! Hardy white, low.  
Tray of 12 Jiffy-Pots, \$4.90.  
Tray of 36 Jiffy-Pots, \$12.50.  
**HINO-CRIMSON**, Very hardy crimson-red, Flat of  
65 C, T, heavy, many breaks, \$9.75; 5 up, \$9.25;  
25 up, \$8.50.  
Tray of 12 Jiffy-Pots, \$2.75.  
Tray of 49 Val-Peat pots, \$8.50; 6 up, \$7.90.  
B&B specimens, 18 to 30 ins., price on request.

**GABLE HYBRIDS**, Very hardy, very nice.  
**CAMPFIRE**, Blood-red, hose-in-hose, very showy.  
**CAROL**, Crimson-pink, hose-in-hose, compact.  
**CAROLINE GABLE**, Brilliant pink, hose-in-hose.  
**ELIZABETH GABLE**, Large pink, dark foliage.  
**HERBERT**, Semidouble large ruffled purple.  
**GABLE'S SCARLET**, Pink, hose-in-hose.  
**LA LUMIERE**, Flame-red, tall, early.  
**LINDA ANN**, Light pink, double, compact.  
**LORNA**, Beautiful double pink, low, compact.  
**LOUISE GABLE**, Semidouble pink, late.  
**MARY ANN**, Large clear semidouble pink.  
**PURPLE SPLENDOR**, Large frilled purple.  
**ROSE GREELY**, Large pure white, hose-in-hose.  
Flats of 65 C, T, \$13.75; 5 up, \$12.50.  
Tray of 12 Jiffy-Pots, \$3.50.  
Tray of 49 Val-Peat pots, \$12.00.

**KAEMPFER HYBRIDS**: Annamaria, white, Fedora,  
rose-pink; Flame, red; Maroon; Roberta, red.  
Tray of 12 Jiffy-Pots, \$3.00.

**MOLLIS**, Orange-yellow, Each Each  
2-yr., S, T, SB, .20 per 100 per 1000  
**MOLLIS KOSTER'S BRILLIANT AND**  
**NIC BEETS**, 2-yr., S, T, SB, .20 ..

**MUCRONULATA**, Hardy early lavender.  
**POUKHANENSIS**, Hardy early  
reddish-violet.

Flats of 70 to 75, 1-yr., S, T, \$12.25.  
2-yr., S, T, SB, June, .25 .22 1/2

**VUYKIANA HYBRIDS**, Large-flowered pastels,  
**BEETHOVEN**, Dark mauve, frilled.  
**WILHELMINA VUYK (PALESTRINA)**, Pure white.  
Flats of 85 C, T, \$10.50.

Tray of 12 Jiffy-Pots, \$3.00.  
Tray of 49 Val-Peat pots, \$9.75.

**BERBERIS ATROPURPUREA NANA**  
(Dwarf Red Barberry)  
2 1/4-in. pot, C, T, .25 ..

**BUXUS MICROPHYLLA KOREANA**  
(Hardy Korean Boxwood)  
2 1/4-in. pot, C, T, 1-yr., .22 1/2 .20

**CHAMAECYPARIS OBUSA CRIPPSI**  
**GRACILIS**, **GRACILIS COMPACTA**,  
**GRACILIS NANA**, **GRACILIS**  
**PYRAMIDALIS**

2 1/4-in. pot, grafts, .45 ..  
**CHAMAECYPARIS CYANO-VIRIDIS**  
(K&C), Blue-green, 3-in. pot, C, TT, .45 .42 1/2

**COTONEASTER LACTEA (PARNEYI)**  
6 to 9 ins., S, 1-yr., BR, .15 ..

**CRATAEGUS PHAENOPYRUM** Each Each  
(Washington Hawthorn) per 100 per 1000  
3 to 6 ins., S, 1-yr., BR, \$0.10 \$0.09

6 to 12 ins., S, 1-yr., BR, .12 1/2 .11  
**CRYPTOMERIA JAPONICA LOBBI**  
**COMPACTA**, 2 1/4-in. pot, grafts, 1.00 ..

**HAMAMELIS JAPONICA**  
(Japanese Witch Hazel)  
3 to 6 ins., S, 1-yr., BR, .06 .05

**ILEX AQUIFOLIUM** (English Holly)  
Selected female, male and pyramidalis  
Tray of 12 Jiffy-Pots, C, T, \$5.40.  
Tray of 36 Jiffy-Pots, C, T, \$14.00.

Male, 3-in. pot, C, TT, 6 to 9 ins., .40 ..  
3-in. pot, C, TT, 9 to 12 ins., .70 ..

**PYRAMIDALIS**, 3-in. pot, C, TT, .40 ..  
**ILEX CRENATA** (Japanese Holly)

**CRENATA**, B, H, J.  
**CONVEYA**, A, B, D, E, F, G, H, J.  
**GLASS**, F, G.  
**HELLER**, F, G.  
**HETZ**, F, G.

**LATIFOLIA**, B, D, F, G, H, J.  
**MICROPHYLLA**, C, F, G.  
**ROTUNDIFOLIA**, B, D, F, G, H, J, K, L.

A—Rooted cuttings, 6 ins., .09 .08  
B—Rooted cuttings, 8 ins., .11 .10  
C—6 to 8 ins., C, T, 1-yr., .16 .15

D—Flats of 65, C, T, \$11.00.  
E—Flats of 60 C, T, 1-yr.,  
6 to 8 ins., \$12.00.

F—Trays of 12 Jiffy-Pots, C, T, \$3.00.  
G—Trays of 49 Val-Peat pots, C, T, \$9.60.  
H—2 1/4-in. pot, C, T, 6 to 8 ins., 1-yr., .25 .22 1/2

J—3-in. pot, C, TT, 8 to 10 ins., .35 .32 1/2  
K—3-in. pot, C, TT, 9 to 12 ins.,  
2-yr., HVY, .45 .42 1/2

L—6 to 10 ins., C, T, 2-yr., BR, .30 .27 1/2  
**ILEX CRENATA GREEN-THUMB**  
Beautiful new spreader.  
Tray of 12 Jiffy-Pots, C, T, \$5.00.

Tray of 49 Val-Peat pots, C, T, \$17.00.  
**ILEX GLABRA COMPACTA**  
(Compact Inkberry)  
2 1/4-in. pot, C, T, 1-yr., .25 .22 1/2

**ILEX OPACA** (American Holly)  
**ARDEN\***, **FARAGE\***, **HOAGLAND\***,  
**MAE, MANIG\***, **MALE, PYRAMIDALIS**  
(BRILLIANTISSIMA)\*, **SELECTED**

**FEMALES\***, **TABOR No. 3**,  
**XANTHOCARPA\***, **ROTUNDIFOLIA**  
(3-in. pot only)  
Tray of 12 Jiffy-Pots, C, T, \$5.40.

Tray of 36 Jiffy-Pots, C, T, \$14.00.  
3-in. pot, C, TT, 1-yr. (\*varieties  
only) .40 ..

**ILEX OPACA PYRAMIDALIS**  
(BRILLIANTISSIMA)  
3-in. pot, C, TT, 12 to 15 ins., .75 ..  
4 1/2-in. pot, C, TT, 12 to 15 ins., .90 ..

**ILEX SERRATA AND VERTICILLATA**  
(Winterberry)  
S, 1-yr., cutback, HVY, .10 .09

**JUNIPERUS ARMSTRONG, ANDORRA,**  
**PFITZERIANA, PFITZERIANA GLAUCA,**  
**GLAUCA HETZI**

Rooted cuttings, 5 to 7 ins., .12 1/2 ..  
**JUNIPERUS BAR HARBOR, EXPANSA,**  
**GLAUCA HETZI, PFITZERIANA**  
**GLAUCA, VIRGINIANA KOSTERI**

2 1/4-in. pot, C, T, 1-yr., .25 ..  
**KOELREUTERIA PANICULATA**  
(Golden-rain Tree)

3 to 6 ins., S, 1-yr., BR, .10 .09  
6 to 12 ins., S, 1-yr., BR, .15 .12 1/2  
**LEUCOTHOE CATESBAEI**  
(Drooping Leucothoe)

Flats of 70 to 75 S, T, 1-yr., \$10.50;  
5 up, \$9.50.  
9 to 12 ins., S, TT, 3-yr., SB, .50 .45

**MAGNOLIA STELLATA WATERLILY** Each Each  
(Waterlily Magnolia) per 100 per 1000  
2 1/4-in. pot, C, T, 1-yr., \$0.55 \$0.50

**MAGNOLIA STELLATA** (Star Magnolia)  
2 1/4-in. pot, C, T, 1-yr., .50 .45  
**PIERIS JAPONICA** (Japanese Andromeda)  
Flats of 70 to 75 S, T, 1-yr., \$10.00;  
5 up, \$9.75; 25 up, \$9.00.

2-yr., S, T, SB, .25 .22 1/2  
**PRUNUS LAUROCERASUS SCHIPKAENSIS**  
3-in. pot, C, TT, 1-yr., .45 .40

**PYRACANTHA COCCINEA LOWBOY**  
**AND LALANDI**  
2 1/4-in. pot, C, T, .20 .18

**RHODODENDRON HYBRIDS, ENGLISH**  
**ROSEUM, ROSEUM ELEGANS,**  
**ROSEUM SUPERBUM**

C, TT, 2-yr., SB, June, 1.25 ..  
**RHODODENDRON HYBRID**  
**SEEDLINGS**, Red.

Flats of 70 to 75, S, T, 1-yr., \$12.50;  
5 up, \$11.50.  
2-yr., S, T, SB, .30 .25

**RHODODENDRON CAROLINIANUM**  
Flats of 70 to 75, S, T, 1-yr., \$12.50;  
5 up, \$11.50.

2-yr., S, T, SB, .25 ..  
**RHODODENDRON HYBRID**  
**SEEDLINGS**, Pink, lavender.

Flats of 70 to 75, S, T, 1-yr., \$12.50;  
5 up, \$11.50.  
2-yr., S, T, SB, .30 .25

**TAXUS CUSPIDATA**  
(Spreading Japanese Yew)  
Rooted cuttings, 8 ins., .11 .10

9 to 12 ins., C, T, 2-yr., BR, .45 ..  
**TAXUS CUSPIDATA CAPITATA**  
(Upright Japanese Yew)

Rooted tip cuttings, 8 ins., .14 .13  
Rooted tip cuttings, 10 ins., .16 .15  
Rooted tip cuttings, 12 ins., .18 ..

S, 3-yr., TT, 6 to 9 ins., BR, .40 .35  
S, 4-yr., TT, 6 to 9 ins., BR, .50 .45  
S, 4-yr., TT, 9 to 12 ins., BR, .60 .55

**TAXUS CUSPIDATA INTERMEDIA**  
(Hybrid Yew)  
Rooted cuttings, 6 ins., .10 .09

Rooted cuttings, 8 ins., .12 .11  
Rooted cuttings, 10 ins., .14 .13  
C, 1-yr., 6 to 8 ins., heeled, .15 .14

**TAXUS CUSPIDATA VERMEULEN**  
(Vermeulen Yew)  
Rooted cuttings, 6 ins., .11 .09

Rooted cuttings, 8 ins., .13 .12  
C, 1-yr., 4 to 8 ins., heeled, BR, .15 .14  
6 to 9 ins., 2-yr., C, T, BR, .40 ..

**TAXUS MEDIA**, Compact globe form  
Rooted cuttings, 6 ins., .11 .10  
**TAXUS MEDIA BROWN** (Brown's Yew).

Rooted cuttings, 6 ins., .13 .12  
**TAXUS MEDIA HATFIELDI** (Hatfield Yew)  
Rooted cuttings, 6 ins., .11 .10

C, 1-yr., 4 to 8 ins., heeled, BR, .15 .14  
6 to 9 ins., 2-yr., C, T, BR, .40 ..  
9 to 12 ins., 2-yr., C, T, BR, .50 ..

**TAXUS MEDIA HATFIELDI SPREADING**  
C, 1-yr., 4 to 10 ins., heeled, BR, .15 .14

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Northern-grown, hardy azaleas, well-budded, sheared, heavy stock, field-grown, excellent foliage. Over 200,000 for spring delivery. All sizes from 8 ins. to 3 ft. All B&B.

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8 ins. ....	\$0.75
10 ins. ....	1.00
12 ins. ....	1.25
15 ins. ....	2.00

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6 ins. ....	.50
8 ins. ....	.75
10 ins. ....	1.00

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Our Hinos are very dark red.

6 ins. ....	.50
8 ins. ....	.75
10 ins. ....	1.00
12 ins. ....	1.25
15 ins. ....	2.00
18 ins. ....	2.50
20 ins. ....	3.50
24 ins. ....	5.00
30 ins. ....	6.00
36 ins. ....	7.50

### ORANGE BEAUTY

KUKUME	6 ins. ....	\$0.50
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	10 ins. ....	1.00
	12 ins. ....	1.25

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Hardest of all azaleas; well-budded, heavy.

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BEAUTY, FEDORA and CARMEN are all the same price.

8 ins. ....	.75
10 ins. ....	1.00
12 ins. ....	1.25
15 ins. ....	2.00
18 ins. ....	2.50
20 ins. ....	3.50
24 ins. ....	5.00
30 ins. ....	6.00
36 ins. ....	7.50

### LEDIFOLIA ALBA

6 ins. ....	\$0.50
8 ins. ....	.75
10 ins. ....	1.00
12 ins. ....	1.25
15 ins. ....	2.00
18 ins. ....	2.50
20 ins. ....	3.50
24 ins. ....	5.00

### MAXWELL

8 ins. ....	.75
10 ins. ....	1.00

### HINO-CRIMSON

6 ins. ....	.50
8 ins. ....	.75
10 ins. ....	1.00
12 ins. ....	1.25
15 ins. ....	2.00

### SNOW

6 ins. ....	.50
8 ins. ....	.75
10 ins. ....	1.00
12 ins. ....	1.25

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McIntosh, Malling I, 2-yr., 9/16-in. cal.		1.50
McIntosh, Malling I, 2-yr., 7/16-in. cal.		1.25
Yellow Delicious, Malling I, 2-yr., 11/16-in. cal.		1.50
Yellow Delicious, Malling I, 2-yr., 9/16-in. cal.		1.40

## OTHER STOCK

100 Max Red Pear, 2-yr., 11/16-in. cal.	1.10
80 Crimson King Maple, 5 to 6 ft., whips	1.80
50 Thundercloud Purple-Leaved Plum, 4 to 5 ft., 2-yr.	.90
1000 New Amber Raspberry, 1-yr., heavy	.10
200 Sheridan Grape, 2-yr., No. 1	.18
200 Steuben Grape, 2-yr., No. 1	.40
300 Concord Grape, 2-yr., No. 1	.15

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CALLICOON, N. Y.

small to medium shrubs (three to 10 feet high), large shrubs and small trees (10 to 25 feet) and trees (30 feet and over).

### Factors in Plant Choice

He stated that the following seven characteristics must be considered in choosing plants for a particular landscape use:

1. Hardiness: One must determine not only a plant's hardiness in cold, but also its hardiness in heat; that is, in the high summer temperatures found in the southwest and often associated with low humidities and high prevailing winds. There are six plant zones encountered in Texas, from zone 5 up to and including zone 10. Plants in zone 5 would need to be hardy to a temperature of 5 degrees below zero and in zone 10 to about 30 degrees.

2. Adaptability: Texas landscape architects must consider a plant's ability to grow in different soil types from deep sands to heavy clay soils, in extremes of sun and shade, in wet and dry sites and in extremely acid to highly alkaline soils.

3. Durability: A woody plant, to be practical for use in landscaping, should last for at least several years, as compared to temporary materials such as seasonal annuals, perennials or bulbs; otherwise its higher cost is not justified.

4. Habit of growth: The form of the plant—whether narrow, spreading, upright, broad, or branching—must be suitable for the landscape effect desired.

5. Foliage characteristics: Color, texture and leaf structure are important, as well as fall and winter color of stem and foliage.

6. Flower and fruit production: These characteristics are important to a plant's ability to produce landscape effects in different seasons.

7. Disease and insect resistance: This point must be given consideration, since it affects the important aspect of maintenance.

Mr. MacQueen then showed colored slides of these groups of woody ornamental plants, illustrating their use in planned landscapes and discussing the habits and characteristics of each plant as well as its disease and insect pests and their control.

After Mr. MacQueen's lecture, the seminar group was taken on an extended tour of 10 planned landscapes—representing residential, institutional and industrial planting in the Bryan and College Station area—that had been designed by several leading landscape architects in the southwest. The tour ended at the residence of Professor and Mrs.





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For Ornamentals, Shrubs, Trees, Lawns, Fruit, Vegetables



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## CHRISTMAS TREE PLANTATION STOCK

### PINE—SPRUCE—FIR Seedlings and Transplants

	Per 100	Per 1000
<b>Norway Spruce (Picea excelsa)</b>		
(2-0), 2-yr., S.,		
2 to 3 ins.....	\$ 7.00	\$18.00
3 to 5 ins.....	8.00	22.00
(1-2), 3-yr., T.,		
5 to 10 ins.....	10.00	50.00
(2-3), 4-yr., T.,		
6 to 12 ins.....	12.00	60.00
8 to 14 ins.....	16.00	90.00
<b>Scotch Pine (Pinus sylvestris)</b>		
(2-0), 2-yr., S.,		
2 to 4 ins.....	4.00	18.50
3 to 6 ins.....	5.00	22.00
4 to 8 ins.....	6.00	25.00
(2-2), 4-yr., T.,		
5 to 10 ins.....	10.00	50.00
8 to 14 ins.....	15.00	60.00
<b>Blue Spruce (Picea pungens)</b> (Colorado Blue Spruce)		
(2-0), 2-yr., S.,		
2 to 3 ins.....	4.00	20.00
3 to 4 ins.....	6.00	25.00
(3-0), 3-yr., S.,		
3 to 6 ins.....	8.00	35.00
5 to 10 ins.....	10.00	55.00
<b>Austrian Pine (Pinus nigra)</b>		
(2-0), 3-yr., S.,		
2 to 4 ins.....	4.00	20.00
3 to 6 ins.....	6.00	25.00
(2-2), 4-yr., T.,		
5 to 10 ins.....	12.00	70.00
<b>White Spruce (Picea alba)</b> Excellent blue-gray color.		
(2-0), 2-yr., S.,		
3 to 6 ins.....	5.00	25.00
(3-0),		
2-yr., S., 4 to 8 ins..	6.00	30.00
3-yr., S., 6 to 12 ins..	8.00	40.00
<b>Concolor Fir (Abies concolor)</b>		
(2-0), 2-yr., S.,		
2 to 3 ins.....	8.00	25.00
3 to 6 ins.....	10.00	50.00
(3-0), 3-yr., S.,		
4 to 8 ins.....	15.00	70.00
<b>Douglas Fir</b>		
(2-0),		
2-yr., S., 2 to 3 ins..	6.00	25.00
3-yr., S., 3 to 6 ins..	8.00	35.00

Discount: Less 5% on quantities of 5000 or more of a kind. Order 100 at 100 rate; 1000 at 1000 rate.

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### EVERGREEN TREE LINING-OUT STOCK

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## DEL-MAR-VA NURSERIES

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Roses, Azaleas, Evergreens, California Privet, Green Barberry, Red Barberry (fine strain).

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- Quality Nursery Stock
- Lining-Out Stock
- Root-Thru Plant Pots

White, where the party was entertained at a reception.

### View Research Projects

The third day's session began at 9 o'clock Friday morning. After a short lecture by Professor White on the need for basic research in the field of landscape architecture, and a resume of such work being done at the A. and M. College of Texas, the group went to the architectural research laboratory. It was pointed out that the college is the leading school in landscaping research. Work that began 10 years ago is expanding to cover, as funds become available, various stages of research in which architecture and landscape architecture are closely coordinated.

One of the first such studies that is still being conducted on a broad scale is that of the effects of building shapes, landscape plantings and garden features on light, air and sound. Through use of a low-speed wind tunnel, landscape architects and city planners are able to study air movements around structures and plantings, and are able to adjust these factors for more comfortable living.

By use of an ingenious artificially lighted sky dome erected in the laboratory, workers may study the intensity and distribution of light reflected from landscape features such as walks, screens, trees, plants and adjoining buildings, which are factors involved in the interior illumination of a building. These considerations are particularly important in the design and planting of public schools and industrial buildings.

For the final item on the seminar program, the group was taken to an open site in the college's farm area, where tests are being conducted to determine the durability of wood and other materials in common landscape usage for fences, screens, etc. Several kinds of wood, given various treatments, are being tested in vertical slat frames, open to the weather and with north, south, east and west exposures. These tests have been under way for three years.

Added to this research program last year was a study of the deterioration of various kinds of wood in contact with the ground surface in situations similar to those of the outdoor patio or terrace. In two sets of tests, the wood is laid on concrete and brick. In a third series the wood sections are placed directly on the ground, and soil is used as a filler. Three different pH values are maintained in the soil — acid, neutral and alkaline — to determine what influence pH may have on the durability of the different woods.



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A very complete line of quality ornamental stock. In addition to our regular assortment we are now producing many of the smaller and lower-growing trees, including:

**Crataegus cordata** (Washington Thorn). Grown with single, straight trunks and shapely heads, available in 4 to 5 and 5 to 6 ft.

**Crataegus mollis** (Downy Hawthorn). Single, straight trunks and excellent heads in 5 to 6, 6 to 7 and 7 to 8 ft.

**Crataegus oxycantha pauli** (Paul's Scarlet Thorn). Straight trunks, full tops, 4 to 5, 5 to 6 and 6 to 7 ft.

Many other smaller-growing varieties are available.

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Also 1-yr. transplants available early spring.

Field plants to 4 ft.

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# FIELD-GROWN LINING-OUT STOCK

Transplanted stock grown in open field beds.

	Each	Each
	100	1000
	rate	rate
<b>Abies concolor</b> (Concolor Fir)		
3 to 6 ins., 2-yr., S.....	\$0.10	..
4 to 8 ins., 3-yr., S.....	.15	..
<b>Azalea Ghent pontica</b> , pastel shades		
4 to 6 ins., 3-yr., T.....	.35	\$0.32
6 to 10 ins., 3-yr., T.....	.45	..
<b>Azalea kaempferi</b> (Torch Azalea)		
3 to 6 ins., 3-yr., T.....	.35	..
6 to 10 ins., 3-yr., T.....	.45	..
<b>Azalea mollis</b> (Chinese Azalea)		
6 to 8 ins., 2-yr., T.....	.22	.18
8 to 12 ins., 3-yr., T.....	.45	.40
<b>Azalea mucronulatum</b> , lavender shades		
4 to 8 ins., 2-yr., T.....	.35	.32
8 to 10 ins., 3-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.55	.50
<b>Buxus sempervirens welleri</b>		
8 to 10 ins., 3-yr., T.....	.45	..
10 to 12 ins., 3-yr., T.....	.55	..
<b>Chamaecyparis filifera aurea</b>		
6 to 8 ins., 2-yr., T.....	.35	..
8 to 10 ins., 3-yr., T.....	.45	..
10 to 12 ins., 3-yr., T.....	.55	..
<b>Chamaecyparis lawsoniana alumi</b> (Columnar Blue Cypress)		
10 to 12 ins., 3-yr., T.....	.45	..
12 to 15 ins., 3-yr., T.....	.55	..
<b>Chamaecyparis plumosa aurea</b>		
8 to 10 ins., 3-yr., T.....	.40	.35
10 to 15 ins., 3-yr., T.....	.50	.45
<b>Cotoneaster horizontalis</b>		
4 to 8 ins., 3-yr., T.....	.25	..
<b>Euonymus fortunei erectus</b>		
10 to 12 ins., 2-yr., T.....	.28	.25
12 to 15 ins., 3-yr., T.....	.35	.30
<b>Euonymus radicans coloratus</b> ,		
12 to 15 ins., 3-yr., T.....	.35	.30
<b>Euonymus radicans vegetus</b>		
8 to 10 ins., 2-yr., T.....	.35	..
10 to 15 ins., 3-yr., T.....	.45	..
<b>Ilex crenata</b> (Pyramidal)		
8 to 10 ins., 2-yr., T.....	.35	..
10 to 15 ins., 3-yr., T.....	.45	..
<b>Ilex crenata convexa</b> (bullata)		
10 to 12 ins., 2-yr., T.....	.48	.45
12 to 15 ins., 3-yr., T.....	.65	.55
12 to 15 ins., 5-yr., field row spaced .....	1.00	.90
<b>Ilex crenata hetzi</b>		
8 to 10 ins., 2-yr., T.....	.40	.38
10 to 15 ins., 3-yr., T.....	.55	..
<b>Ilex rotundifolia</b> (Round-leaved)		
8 to 10 ins., 2-yr., T.....	.38	.35
10 to 12 ins., 3-yr., T.....	.48	.45
12 to 15 ins., 3-yr., T.....	.70	.55
12 to 15 ins., 5-yr., T..... field row spaced .....	1.00	.90
<b>Juniper, Andorra</b> (Purple Andorra Juniper)		
8 to 10 ins., 2-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.50	.45
<b>Juniperus canadensis aurea</b> (Golden Canadian Juniper)		
6 to 8 ins., 2-yr., T.....	.35	..
8 to 10 ins., 3-yr., T.....	.45	..

## FINISHED NURSERY STOCK

All plants listed below priced in the ground. Purchaser to call for at the nursery. About 10,000 in this block. Will give a block clearance price on large amounts.

	Each	Each
	100	1000
	rate	rate
<b>Ilex crenata convexa</b> (bullata)		
12 to 15 ins., 2-yr., T.....	\$1.50	\$1.10
15 to 18 ins., 3-yr., T.....	2.00	1.60
18 to 24 ins., 3-yr., T.....	2.50	..
<b>Ilex rotundifolia</b>		
12 to 15 ins., 2-yr., T.....	1.50	1.10
15 to 24 ins., 3-yr., T.....	2.00	1.60
<b>Juniperus glauca hetzi</b>		
18 to 24 ins., 3-yr., T.....	2.00	1.60
24 to 36 ins., 3-yr., T.....	2.40	1.75
<b>Juniperus pfitzeriana compacta</b> , Nelson's compact variety		
12 to 15 ins., 2-yr., T.....	1.50	1.10
15 to 18 ins., 3-yr., T.....	2.00	1.50
<b>Taxus cuspidata</b> (about 125 of these plants)		
4 to 5-ft. spread .....	8.00	..
(10 to 200 at the 100 rate; 200 up at the 1000 rate.)		

	Each	Each
	100	1000
	rate	rate
<b>Juniperus glauca hetzi</b> (Hetzi Juniper)		
8 to 10 ins., 2-yr., T.....	\$0.35	\$0.30
10 to 12 ins., 2-yr., T.....	.40	.35
12 to 15 ins., 3-yr., T.....	.55	.48
<b>Juniperus hibernica fastigiata</b> (Compact Irish Juniper)		
10 to 12 ins., 2-yr., T.....	.38	.33
12 to 15 ins., 3-yr., T.....	.45	.40
<b>Juniperus pfitzeriana, regular</b>		
8 to 10 ins., 2-yr., T.....	.45	..
10 to 15 ins., 3-yr., T.....	.55	..
<b>Juniperus pfitzeriana aurea</b> (Golden Pfitzer Juniper)		
8 to 10 ins., 2-yr., T.....	.45	..
10 to 15 ins., 3-yr., T.....	.65	..
<b>Juniperus pfitzeriana compacta</b> , Nelson's compact variety		
6 to 8 ins., 1-yr., T.....	.35	.30
8 to 10 ins., 2-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.65	..
<b>Koeleruteria paniculata</b>		
2-yr., S., field bed .....	.12	.08
6 to 12 ins., 3-yr., T.....	.18	.15
<b>Leucothoe catesbaei</b>		
8 to 10 ins., 3-yr., T.....	.35	.30
10 to 12 ins., 3-yr., T.....	.45	..
12 to 15 ins., 3-yr., T.....	.55	..
<b>Liquidambar styraciflua</b>		
2-yr., S., bed run .....	.10	.08
6 to 12 ins., 3-yr., T.....	.15	.12
<b>Mahonia aquifolium</b>		
2 to 5 ins., 3-yr., S.....	.20	.18
4 to 8 ins., 4-yr., S.....	.25	.20
<b>Picea alba</b> (White Spruce)		
3 to 6 ins., 2-yr., S.....	.05	.02½
6 to 12 ins., 3-yr., S.....	.08	.04

	Each	Each
	100	1000
	rate	rate
<b>Picea excelsa</b> (Norway Spruce)		
6 to 12 ins., 4-yr., T.....	\$0.12	\$0.06
8 to 14 ins., 4-yr., T.....	.16	.09
<b>Picea pungens</b> (Colorado Blue Spruce)		
4 to 6 ins., 4-yr., T.....	.20	.18
6 to 8 ins., 4-yr., T.....	.35	.32
<b>Pieris floribunda</b> (Mountain Andromeda)		
6 to 8 ins., 2-yr., T.....	.35	..
<b>Pieris japonica</b>		
8 to 10 ins., 2-yr., T.....	.35	..
10 to 12 ins., 3-yr., T.....	.65	..
<b>Pinus mugo</b> (Dwarf Mugo Pine)		
3 to 6 ins., 3-yr., T.....	.25	.20
<b>Pinus nigra</b> (Austrian Pine)		
5 to 10 ins., 4-yr., T.....	.13	.07
<b>Pinus sylvestris</b> (Scotch Pine)		
5 to 8 ins., 4-yr., T.....	.10	.05
8 to 14 ins., 4-yr., T.....	.15	.08
<b>Pseudotsuga douglasii</b> (Douglas Fir)		
2 to 3 ins., 2-yr., S.....	.06	.02½
3 to 5 ins., 3-yr., S.....	.08	.03½
<b>Pyraecantha coccinea lalandi</b>		
6 to 10 ins., 2-yr., T.....	.32	.30
10 to 15 ins., 3-yr., T.....	.40	.38
<b>Rhododendron carolinianum</b>		
2 to 4 ins., 3-yr., T.....	.35	..
4 to 8 ins., 3-yr., T.....	.45	..
<b>Rhododendron catawbiense</b>		
2 to 4 ins., 3-yr., T.....	.35	..
4 to 8 ins., 3-yr., T.....	.45	..
<b>Rhododendron Hybrid</b> , various colors		
3 to 5 ins., 3-yr., T.....	.45	..
5 to 8 ins., 4-yr., T.....	.55	..
8 to 10 ins., 4-yr., T.....	.85	..
10 to 15 ins., 5-yr., T.....	1.00	..
<b>Taxus capitata</b> (Upright Yew)		
4 to 8 ins., 4-yr., T.....	.40	.35
8 to 10 ins., 4-yr., T.....	.50	.48
<b>Taxus cuspidata</b> (Spreading Yew)		
6 to 8 ins., 2-yr., T.....	.38	.35
8 to 10 ins., 2-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.55	.45
<b>Taxus media hicksii</b> (Hicks' Yew)		
6 to 8 ins., 2-yr., T.....	.35	..
8 to 10 ins., 2-yr., T.....	.45	..
10 to 15 ins., 3-yr., T.....	.55	..
<b>Thuja occidentalis douglasii aurea</b> (Geo. Peabody Golden Arborvitae)		
8 to 10 ins., 3-yr., T.....	.45	..
10 to 15 ins., 3-yr., T.....	.55	..
<b>Thuja occidentalis elegantissima lutea</b>		
10 to 12 ins., 3-yr., T.....	.45	.40
12 to 15 ins., 4-yr., T.....	.55	.50
15 to 18 ins., 4-yr., T.....	.65	..
<b>Thuja occidentalis globosa</b>		
8 to 10 ins., 2-yr., T.....	.40	.35
10 to 15 ins., 4-yr., T.....	.65	..
<b>Thuja occidentalis pyramidalis</b>		
10 to 12 ins., 2-yr., T.....	.45	..
12 to 15 ins., 3-yr., T.....	.55	..
15 to 18 ins., 3-yr., T.....	.65	..
<b>Tsuga canadensis</b> (Hemlock)		
8 to 10 ins., 4-yr., T.....	.40	..
10 to 15 ins., 5-yr., T.....	.55	.50
<b>Viburnum opulus nanum</b>		
2-yr., T.....	.30	..

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## TEXAS LANDSCAPE MEET

The midyear meeting of the Texas Landscape Association was held at 10 a. m. Wednesday, March 12, in conjunction with the first annual landscape seminar at the Agricultural and Mechanical College of Texas, College Station. President Otto E. Scherz, Scherz Nursery, San Angelo, presided. Vice-president Ralph Ellis Gunn, Southscapes, Houston, gave an interesting account of the first section of the annual Williamsburg garden symposium, held

March 5 to 7, where he had appeared on the program with an address, "Southern Garden Design."

Considerable discussion was held on the federal trade commission trade practice rules for the nursery industry, and it was felt that Rule 7, Misrepresentation as to Character of Business, would apply to individuals or firms advertising in local newspapers or in the classified pages of local telephone directories as qualified landscape architects without being qualified by training or expe-

rience for such a business or professional representation. Members were urged to look into this situation in their local areas and be prepared to discuss the matter further at the annual meeting.

Plans were laid at this meeting for participation in the annual convention of the Texas Association of Nurserymen to be held at Austin, August 24 to 27. A half-day program will be financed and sponsored by the landscape association, which will supply a prominent landscape archi-



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18 to 21 ins. ....	\$3.75	\$3.50	\$3.25
21 to 24 ins. ....	4.75	4.50	4.25
24 to 28 ins. ....	6.50	6.00	5.75

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tect speaker, to be announced later, and conduct a panel discussion on contemporary landscape design and plant materials for Texas. The annual meeting of the association was set for 2 p. m., Sunday, August 24, in the Commodore Perry hotel, Austin, in conjunction with the T. A. N. convention.

### Reactivate License Project

The association took action to continue the work started several years ago on a state licensing law for landscape architects based on similar laws now in effect in California and Louisiana. An expenditure was authorized to engage the services of a legal adviser to assist in later phases of this work. It was decided that a preliminary report should be prepared and submitted to the board of directors of the T. A. N. at its annual meeting at Austin, August 24. The committee appointed by President Scherz to undertake the licensing project consists of George Fisher, Arp Nursery Co., Tyler, chairman; Theo S. Daniel III, Daniel Landscape Nurseries, Athens; Ray Breedlove, Breedlove Nurseries, Tyler, and C. C. Pinkney, Austin.

A committee was named by President Scherz to make arrangements for the 1958 meeting at Austin, in cooperation with the T. A. N. H. Durward Thompson, landscape architect, Corpus Christi, was named chairman, with C. C. Pinkney; John K. Richardson, Mesquite; Mancill Allen, Mancill Allen Nursery, Houston; Lewis Eberspacher, San Antonio, and George Porcher, Jr., Corpus Christi, as committee members.

The association commended the faculty of the floriculture and landscape architecture department of the A. and M. College of Texas, and Prof. Robert F. White in particular, on the fine program they prepared for the first annual landscape design seminar.

Members endorsed the continuation of these seminars as an annual event, and further recommended that there be no landscape design subjects as such given in the annual commercial nurserymen's short course in the future, but that the two short courses (seminars) be kept distinct and separate in subject material. The association also went on record as favoring the holding of the landscape design seminar in the later part of the year, preferably in September or October.

Also discussed by the members were the appropriations for proper landscaping and plant materials for the interstate highway system and the services and materials that might

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	Per 100	Per 1000
<b>NORWAY MAPLE</b> ( <i>Acer platanoides</i> ) 1-yr., S., 5 to 10 ins.	\$10.00	\$50.00
<b>HONEY LOCUST</b> , Thornless ( <i>Gleditsia triacanthos inermis</i> ) 1-yr., S., 6 to 12 ins.	8.00	40.00
<b>PIN OAK</b> ( <i>Quercus palustris</i> ) 1-yr., S., 6 to 12 ins.	12.00	60.00

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be provided by the landscape architects and nurserymen for anticipated large-scale public works projects.

Received into membership in the association at this midyear meeting was George S. Porcher, Jr., who has been associated with H. Durward Thompson since 1954.

George Fisher, Sec'y.

**NURSERY TOUR**

[Continued from page 16]

plants are spread apart, to allow ample room for them to grow.

**Soil Mixture**

Periodic soil tests are made to determine plant food requirements. Plants are irrigated and fertilized once a month through irrigation water. Perkins-de Wilde Nurseries have over 170,000 containers in the nursery and are the largest container-stock growers in the east. For many container-grown plants a soil mixture of one-fifth peat, one-fifth sand and three-fifths soil (sassafras loam) is used. This mixture gives excellent results. Taxus varieties that are grown in containers are potted in a mixture of one-half Sterilite and one-half soil. This is done to avoid drowning and to allow ample water and air drainage.

Over 50 varieties of plants are grown in containers. A few varieties are abelia, cotoneaster, euonymus, several varieties of ilex, magnolias, andromeda, junipers, pyracantha, taxus, viburnums and arborvitae. The pyracantha and cotoneaster are difficult to transplant; hence, it is advantageous to grow them in containers. Mr. de Wilde has found that pyracantha grown in 2-gallon containers develop into much larger, fuller plants than those potted in 1-gallon containers, in the same length of time. He has shown that ilex crenata convexa grown in a container develops to twice the size of a plant grown in open nursery rows in the same length of time.

In the fertilizer program, both dry and liquid (soluble) fertilizers are used. Through soil tests conducted at the nursery by Robert de Wilde, it was found that most of the soil nutrients leach out of the container mix rather quickly. However, due to periodic fertilization, plant growth is excellent. The cost of fertilization on a container basis is 0.9 cents per container, per season.

**Contour Planting**

After leaving the container growing area, the visitors inspected a field where large blocks of evergreens were planted in contour rows. The soil conservation service laid out the

**LAST-MINUTE SPECIALS****Hybrid French Lilacs**

Root grafts  
\$18.00 per 100; \$175.00 per 1000

Alice Eastwood, pink  
Charles X, claret-red  
Paul Harlot, purple  
Lucie Haltet, pink  
President Viger, blue  
President Lincoln, blue  
Mme. A. Buchner, pink  
Mme. Chas. Souchet, pale blue  
Mme. Lemoine, white  
Vestale, white  
Ellen Willmott, white  
Ludwig Spaeth, purple

**Salable Flowering Trees**

(Extra-fine for potting up in cans) Per Each

**Flowering Plum** (Rose Tree of China)  
3 to 4 ft., br., heavy ..... \$1.50  
**Flowering Japanese Cherry**  
Kwanzan, strong straight stems and shapely heads; extra-heavy young vigorous plants  
3 to 4 ft. .... 2.00  
4 to 5 ft. .... 2.25  
**Kousa Dogwood**, transplanted  
18 to 24 ins. .... 1.00

**Field Transplants**

	Per 100	Per 1000
<b>Ilex convexa</b> 1-yr., lightly br. .... \$12.00	\$100.00	
3-yr., heavy-br. .... 25.00	225.00	
<b>Ilex helleri</b> (dwarf) 1-yr., fine-br. .... 15.00	125.00	
<b>Buxus sempervirens</b> 1-yr., bushy, extra-fine, .... 15.00		
<b>Pieris japonica</b> (Andromeda) R.C., T. .... 12.00	100.00	
2-yr., T., hvy.-br. .... 20.00	190.00	
3-yr., heavy, well-br. .... 45.00	425.00	
<b>Taxus cuspidata</b> R.C., ready May . 9.00	85.00	
<b>Taxus capitata</b> 2-yr., leaders .... 25.00		
<b>Taxus bicolor</b> 8 to 10 ins., R.C. .... 10.00	90.00	
3-yr., 10 to 12 ins., heavy .... 40.00	350.00	
<b>Viburnum burkwoodii</b> 1-yr., own roots, 2 1/4-in. pots ... 25.00		
<b>Viburnum juddii</b> 12 to 15 ins., 1-yr., buds .... 65.00		
15 to 18 ins., 1-yr., buds .... 75.00		

**Pot Grafts**

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**Bloodgood Red Japanese Maple** Per 100  
Cut-leaved Red Japanese Maple ..... \$ 65.00  
Maple ..... 75.00  
Koster Blue Spruce ..... 100.00  
Swiss Stone Pine ..... 50.00  
Dwarf White Pine ..... 50.00  
Waterer Scotch Pine ..... 50.00  
Japanese Table Pine ..... 50.00  
River's Purple Beech ..... 65.00  
Viburnum juddii ..... 50.00

**Shade Tree Seedlings**

	100	1000
Norway Maple, 1-yr. ....	\$6.00	\$50.00
Sugar Maple, 1-yr. ....	6.00	
Red Oak, 1-yr., fine quality .....	8.00	75.00

TERMS: Cash earns free packing or 25 per cent deposit, balance C.O.D.

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### EXTRA-HEAVY, GRADED

	Each	Per 100
<b>ALMOND, PINK-FLOWERING</b>		
1550 12 to 18 ins. ....	\$0.25	
<b>DOGWOOD, RED-TWIGGED</b>		
420 12 to 18 ins. ....	.35	
<b>FORSYTHIA SPECTABILIS</b>		
130 12 to 18 ins. ....	.30	
<b>FORSYTHIA SPRING GLORY</b>		
1150 12 to 18 ins. ....	.30	
<b>FORSYTHIA ARNOLD</b>		
<b>GIANT DWARF</b>		
320 12 to 18 ins. ....	.40	
<b>HONEYSUCKLE, PINK</b>		
<b>TARTARIAN</b>		
430 12 to 18 ins. ....	.22½	
1030 18 to 24 ins. ....	.27½	
<b>HONEYSUCKLE, ZABELI</b>		
1700 12 to 18 ins. ....	.25	
1100 18 to 24 ins. ....	.30	
<b>HYDRANGEA P. G.</b>		
390 12 to 18 ins. ....	.27½	
<b>LILAC, PERSIAN</b>		
610 12 to 18 ins. ....	.30	
<b>LILAC, PURPLE</b>		
1150 12 to 18 ins. ....	.30	
<b>PHILADELPHUS VIRGINALIS</b>		
360 12 to 18 ins. ....	.35	
<b>PRIVET, PYRAMIDAL ENGLISH</b>		
2100 18 to 24 ins. ....	.25	
500 2 to 3 ft. ....	.35	
<b>SPIRAEA ANTHONY WATERER</b>		
430 15 to 18 ins. ....	.35	
340 18 to 24 ins. ....	.45	
<b>SPIRAEA FROEBELI</b>		
1150 15 to 18 ins. ....	.25	
<b>TAMARIX AFRICANA</b>		
150 12 to 18 ins. ....	.20	
280 18 to 24 ins. ....	.25	
<b>VIBURNUM OPULUS</b>		
430 12 to 18 ins. ....	.30	
350 18 to 24 ins. ....	.40	
<b>VIBURNUM OPULUS STERILE</b>		
890 12 to 18 ins. ....	.35	

## SHADE TREES

	Each	Per 100
<b>MAPLE, SILVER</b>		
500 5 to 6 ft. ....	\$1.25	
1000 6 to 8 ft. ....	1.50	
3000 8 to 10 ft. ....	2.00	
1000 1¼ to 1½-in. cal. ....	2.75	
1500 1½ to 1¾-in. cal. ....	3.50	
<b>SYCAMORE, AMERICAN</b>		
500 6 to 8 ft. ....	2.00	
1000 8 to 10 ft. ....	3.00	
1000 1¼ to 1½-in. cal. ....	4.00	
1000 1½ to 1¾-in. cal. ....	5.00	
500 1¾ to 2-in. cal. ....	6.00	

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entire contour plan in 1940. Since then, Perkins-de Wilde Nurseries have contoured and added waterways to the property. This practice has given excellent control of erosion, with conservation of water. A crop rotation includes one year of soybeans and two years of sod crops, followed by three years of nursery materials. Complete fertilization tests are run periodically; 100 pounds of nitrogen per acre are maintained for most nursery stock.

The group visited the area where stock is planted into containers with the aid of a special planting machine, which had been modified by Klaas de Wilde. The cans are filled and put on a conveyor belt, which carries them under a plunger that presses a hole in the soil. This process enables rapid planting of small plants. The cans are then loaded and moved to cold-storage frames or the container stock growing area, depending on the season. The same soil mix is used as already mentioned, and fertilizer in the form of urea is incorporated. The pH of the soil is adjusted to 6.5 for taxus, pyracantha, arborvitae and other varieties that require that level.

The tour was enjoyed by all who participated, and Klaas de Wilde invited all to return, mentioning that the summer would be most advantageous.

### STEVENSON WINS TROPHY

Harold Stevenson, president of the New England Nurserymen's Association, received the president's cup of the Massachusetts Horticultural Society for his design and construction of the main exhibit in the New England flower show held March 9 to 15 at Boston. The display was patterned after California mission gardens, which Mr. Stevenson had observed on a western trip last year. Mr. Stevenson, who has been connected with the New England flower show for nearly 10 years, has served on the exhibition committee a number of times.

### FIFTH TEXAS TREE SALE

The San Antonio Nurserymen's Association, in cooperation with several civic organizations at San Antonio, Tex., held its fifth annual dollar tree sale in February. Featured among the offers were 7,000 bare-root young ash, American elm, red oak, mimosa, redbud, crape myrtle and cottonwood trees, all suited to the growing conditions in the southwest. The trees were sold at the low \$1 cost as part of a city beautification plan initiated several years ago.

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Well-established pot plants from last year's propagation. Many of our customers grow these pot plants into salable finished plants during the first summer.

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2-in. pot plants. ....	20c	18c

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24 to 30 ins. ....	\$2.50
30 to 36 ins. ....	2.75
36 to 42 ins. ....	3.25
42 to 48 ins. ....	3.50

**Densiforma Yew**  
20 ins. .... 5.00

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**Forsythia**  
Brand-new giant-flowered forsythia developed by the Arnold Arboretum.  
Heavy Outdoor Rooted Cuttings  
\$15.00 per 100; \$135.00 per 1000  
**BEARDSLEE NURSERY PERRY, O.**

**TREES FOR AMERICAN GARDENS**  
by Donald Wyman. 745 recommended trees, 1600 species and varieties. **\$8.00.**  
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An application of leach-resistant "Uramite" supplies nitrogen uniformly, assuring your ornamentals long-term, sturdy, healthy growth and vitality. Uniform granules of Du Pont "Uramite" are free-flowing, clean and completely odorless.

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Polychemicals Department  
Wilmington 98, Delaware*



**Ian Morrison**, agronomist for Mulford Greenhouses, shows *Aphelandra Louisa* that is receiving a constant supply of nitrogen from Du Pont "Uramite" in the potting soil.

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Nitrogen Fertilizer . . .**



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FERTILIZER COMPOUND

BETTER THINGS FOR BETTER LIVING...THROUGH CHEMISTRY

# PLANT NOTES HERE AND THERE

By C. W. Wood

## Lilium Croceum

When one is told by the botanists that the lily which we of gardens have long known as *L. croceum* is really a form of the rather commonplace *L. bulbiferum*, he is likely to lose any enthusiasm for it he may have acquired by reading the encomiums of its friends. An acquaintance with the plant in the garden will soon regenerate the original enthusiasm, and even add to it, first by the ease of the plant's culture and then by a generous display of upturned, dark-spotted, bright orange chalice commencing in late June. As to culture, the plant does well in almost any garden soil in either full sun or light shade. It is said to endure quite moist situations, but of that I cannot say, though it does thrive hearteningly in the light soil here in northwest Michigan. It will grow up to four feet in a rich medium and produce up to a dozen or more (20 is mentioned in the literature) of its large flowers in an umbel at the top of each stem. Since it is a stem rooter, it is recommended that it be planted about five inches deep in heavy soil; experienced gardeners in this section of light soils tell me they try to get it in at least six inches. These same experienced gardeners tell me the clumps should be broken up every third year to maintain full flower production, because of the natural division of the bulb. After seeing a 4-year-old clump, I find it hard to believe that the plant often produces no more than one flower to a stem under natural conditions in crevices on rocky cliffs in Switzerland. Propagation is by natural division; by bulb-bills, which appear in leaf axils, and by scales if that ever becomes necessary.

## Centranthus

Last summer I asked a mail-order nurseryman who formerly listed *Centranthus ruber* why he no longer grew the plant, and he replied: "I never drop a plant from the list until it ceases to pay its way. *Centranthus* never paid its way; so I only kept it on the four years we try them. If I were running a nursery for local sales, I am sure that both species that we grew, *C. angustifolius* and *C. ruber*, would be a part of my operations. I guess our copywriter

and artist could not make a picture that would take the place of the actual plant." There you have the situation of too many plants.

At one time, *C. ruber*, known to gardeners as Jupiter's-beard and red valerian, indicating a familiarity with the plant no longer prevailing in the country, played a prominent role in many gardens. Why that is the case, I do not know, for its rose to crimson flowers, on 2-foot stems (three feet under good culture), blooming through most of the summer, would be sufficient reward for much effort. But much effort is not needed, because the plant can take care of itself in any good garden soil in sun or part shade. The other species, *C. angustifolius*, which should be mentioned in any note on perennial *centranthus*, has long been known in garden literature, but is

even scarcer in present-day gardens than the first-mentioned species. It will grow easily in an ordinary border under average care and will put on a pleasingly long performance, during which it produces a succession of pretty, rose-colored flowers on 2-foot stems. Both *C. angustifolius* and *C. ruber* are easily grown from seeds, and both are permanent.

## Small Arabises for Ground Covers

An inquiry on my desk for a ground-hugging plant to cover a large area could not be better answered, I think, than by a recommendation of one of the small arabises. That does not, however, include the ubiquitous and useful *Arabis alba*, usually thought of in this connection, because its foliage mass is far too thick to qualify for the "ground-hugging" term used by

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Per 1000 Per 10,000  
**Cotoneaster acutifolia, S.**  
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110 **Acer rubrum**, B&B or B.R., 2 to 2 1/2 ins.  
200 **Juniper**, *pfitzeriana*, 24 to 30 ins.  
100 **Juniper**, *canaertii*, 3 1/2 ft.  
75 **Washington Hawthorn**, 8 to 10 ft.  
35 **Washington Hawthorn**, 10 to 12 ft.  
500 **American Sycamore**, 7 to 8 ft., heavy branched  
500 **Acer dasycarpum**, 7 to 8 ft., heavy branched

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1/4-in. cal.	4.50	40.00
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<i>Juniperus virginiana</i>			
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18 to 24 ins.	1.50	1.40	
2 to 3 ft.			
<i>Koster Juniper</i>			
1-gal. can	1.45	1.35	
<i>Taxus cuspidata</i>			
1-gal. can	1.50	1.40	
<i>Woodward Globe Arborvitae</i>			
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6 to 8 ft.	25.00	225.00
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18 to 24 ins.	5.50	50.00
<i>Lilac, rothomagensis</i>		
18 to 24 ins.	5.00	45.00
<i>Lilac, villosa</i>		
18 to 24 ins.	4.50	40.00
12 to 18 ins.	2.90	25.00
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15 to 18 ins.	4.00	35.00
<i>Spiraea multiflora</i>		
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2 to 3 ft.	5.50	50.00
18 to 24 ins.	4.50	40.00
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18 to 24 ins.	3.50	30.00
12 to 18 ins.	2.60	22.00

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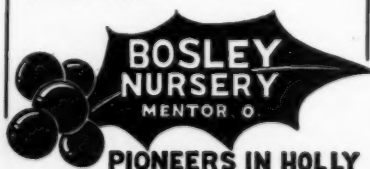
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the inquirer. There is a group of wall cresses, however, the ones with tight, ground-hugging mats of glossy green leaves, instead of the hairy leaves of *A. albida* and its class, that answers our present purpose.

This class is best known in this country in the form of *A. procurrens* and less frequently in *A. sturi*. The first of these has flowering stems about six inches tall, except when it is grown in shade, when it may reach 10 inches high, while the latter seldom exceeds four inches. Both make lovely, dark green mats, which are their fortune over the 12 months. Their small, white flowers are not really exciting, though they help to make a pretty picture, especially in shady spots, as they sway in the spring breeze. These two plants were quite indestructible in our trials, and I remember one planting we made under a spreading *Cotoneaster racemiflora* *soongorica* which finally covered the entire area of 80 or more square feet. Despite the infertile, light sand thrown out of a nearby ditch and dense shade in part of the area, the plants thrived and made a lovely picture, with the white canopy of *cotoneaster* flowers spread out over the glossy, green carpet beneath. In autumn the prodigious number of bright red fruit had the same background. The plants may be endlessly multiplied by division of the mats.

### More Small Arabises

While I was writing the foregoing, two other little arabises, *A. ferdinand-coburgi* and *A. kelleri*, came to mind, demanding a few words of praise. They do not, however, qualify for the role of "ground-hugging" plants set forth by the correspondent, because they cannot take care of themselves in the way that a ground cover for unconsidered places is supposed to do. Yet they are not too difficult to put in the hands of the beginning gardener.

The first of these, *A. ferdinand-coburgi*, is a lovely ash-gray mat with white flowers, large for the size of the plant, on 2 or 3-inch stems, beautiful in almost any association and especially desirable as a ground cover in small bulb beds in sun or light shade. In my trials, it bloomed profusely in early spring and usually again in autumn, which made it doubly valuable. Despite its gray foliage, which often points to a miff, it is easy to manage in a well-drained soil, preferably in sun, but manageable in light shade, with some attention to watering during long dry periods. These are points that bear heavily on the casual gardener's

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8 to 10 ft., B&B .....	12.00 to 18.00

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3 to 4 ft., B.R. ....	1.25
3 to 4 ft., B&B .....	1.75
4 to 5 ft., B.R. ....	1.75
4 to 5 ft., B&B .....	2.50

### Euonymus alatus compactus

18 to 24 ins., B.R. ....	.80
18 to 24 ins., B&B .....	1.25
24 to 30 ins., B.R. ....	1.00
24 to 30 ins., B&B .....	1.50

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2 to 3 ft., B&B .....	2.00
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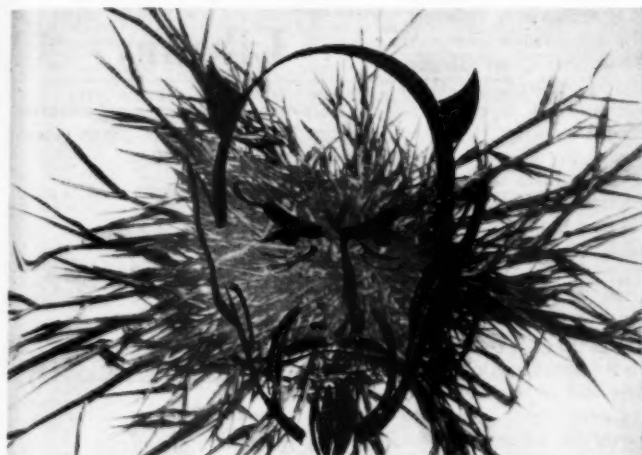
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3 to 3 1/2 ft., B&B .....	3.50	3.25
3 1/2 to 4 ft., B&B .....	4.00	
4 to 4 1/2 ft., B&B .....	5.50	
<b>Canadian Hemlock, sheared plants</b>		
2 to 2 1/2 ft., B&B .....	3.75	
2 1/2 to 3 ft., B&B .....	4.25	
3 to 3 1/2 ft., B&B .....	4.75	
3 1/2 to 4 ft., B&B .....	5.25	
4 to 4 1/2 ft., B&B .....	6.25	
4 1/2 to 5 ft., B&B .....	7.75	
<b>Cornus Florida (White- Flowering Dogwood)</b>		
5 to 6 ft., well-br., B&B ..	3.50	3.25
6 to 8 ft., well-br., B&B ..	5.50	5.25
<b>Juniperus pfitzeriana, spreading</b>		
18 to 24-in. spread, B&B ..	3.00	2.75
24 to 30-in. spread, B&B ..	3.50	3.25
30 to 36-in. spread, B&B ..	4.00	3.75
<b>Magnolia soulangeana, early pink-flowering.</b>		
2 to 3 ft., br., with buds, B&B .....	3.50	3.25
3 to 4 ft., br., with buds, B&B .....	4.00	3.75
<b>Magnolia niger, red-flowering</b>		
2 to 3 ft., br., with buds, B&B .....	3.50	3.25
3 to 4 ft., br., with buds, B&B .....	4.00	3.75
<b>Taxus cuspidata (Spreading Japanese Yew)</b>		
12 to 15-in. spread, B&B ..	3.50	3.25
15 to 18-in. spread, B&B ..	4.00	3.75
<b>Quercus cerris (Turkey Oak), well-br.</b>		
1 to 1 1/2-in. cal., B.R. ....	5.00	
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### PRONOUNCING DICTIONARY of Plant Names

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American Nurseryman Chicago 4.

mind when he is purchasing his garden plants, as nurserymen know.

Only a little less lovely among the small editions of arabis is *A. kellereri*. It is said to be a hybrid between *A. bryoides*, a little miff from Greece, and *A. ferdinand-coburgi*. It has so many characteristics of its one parent, *A. ferdinand-coburgi*, that few except specialists would need both. And of the two, I think the parent would be preferred, not because it is a better appearing plant, but rather for its hardier constitution.

I remember entertaining the thought that both plants were hardy in this northern climate, but a cold winter changed that opinion. Although I do not know from observation or reading just how much cold they could stand, they probably would be hardy in all except the coldest parts of the country.

#### Linum Lewisii

I received a note reading, in part, as follows: "I have grown *Linum perenne* for years and *L. alpinum* during the past few years, both with complete satisfaction. Another grower told me recently that I had missed the best of all the blue flaxes by not growing *L. lewisii*. What do you say about that?" Well, I refuse to get into an argument over the merits or demerits of a plant, but I am glad to give you an impression of the plant.

When properly grown, *L. lewisii* is a lovely flax, with all the airiness and grace of the best of the family. It produces its large, sky-blue saucers on graceful stems to a foot in height, commencing in the north in late June. A well-grown plant calls for a light, well-drained soil of little fertility, according to my experience. We thought that soil made up of sand, gravel and a little leaf mold was the ideal medium. Heavy soil seems to be sure death to *L. lewisii* because of killing out between fall and spring, since it cannot stand excess moisture at the crown. Rich soil causes unstable growth to double or more the height mentioned for a well-done plant, and that brings on flopping and untidiness. No doubt its reputation of being tender to cold comes from planting it in heavy, poorly drained soil. Speaking of the structure of the plant, I cannot see enough difference between it and *L. perenne* for a grower to have both.

#### Allium Albopilosum

While going over some old notes recently, I found one on the Persian onion, *Allium albopilosum*, that brought back some pleasant and a few unpleasant memories, along with

## Nurseryman's Library

"A Nurseryman's library is not complete without books on plants, plant propagation and plant handling."

Here are some suggestions:

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this page. If order is wanted shipped prepaid please add to amount of order 10% if your customer lives in Iowa, Illinois, Missouri, Nebraska or Wisconsin. All other states add 20%. A minimum charge of 40c is made on small orders to cover postage.

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We are Iowa's largest grower and shipper of fine strawberry plants, averaging over 3,000,000 plants per year. Our sandy Des Moines River-bottom soil plus adequate irrigation, cold storage, spraying, packing and shipping facilities, using the very latest methods, enables our plants to reach you in perfect condition. All plants tied 26 to a bundle, counted as 25, and each bundle will be labeled. Season starts around February 25 and continues through June 1. For rush orders wire or phone 242, Farmington, Iowa.

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	Per 25	Per 100	Per 1000	Per 5000
IOWA BEAUTY .....	\$0.60	\$2.00	\$18.00	\$50.00
PAY MASTER .....	.50	1.50	16.00	55.00
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EMPIRE .....	.40	1.35	12.00	55.00
*TENNESSEE BEAUTY .....	.40	1.35	11.00	50.00
*WISCONSIN 214 .....	.40	1.35	11.00	50.00
*VERMILLION .....	.40	1.30	10.00	45.00
*FAIRLAND .....	.40	1.30	10.00	45.00
*ARMORE .....	.40	1.30	10.00	45.00
*PREMIER .....	.40	1.30	10.00	45.00
BELMAR .....	.40	1.30	10.00	45.00
*BLAKEMORE .....	.40	1.05	9.00	40.00
*ROBINSON .....	.30	1.00	8.50	37.50
BEAVER .....	.30	1.00	8.50	37.50
*DUNLAP .....	.30	.95	8.00	37.50

NOTICE—All varieties marked with an asterisk (\*) are from virus-free mother stock. Our plants are carefully sorted to maintain a healthy virus-free condition and are grown on virus-free soils.

### BUSH FRUITS

1-Yr., No. 1 Plants	Per 5	Per 25	Per 100	Per 250
Thornless Haysenberry .....	\$0.40	\$1.50	\$5.50	\$25.00
Cumberland Raspberry .....	.40	1.50	5.50	25.00
Morrison Raspberry .....	.40	1.75	6.00	55.00
Bristol Raspberry .....	.45	1.85	6.50	55.00
Latham Raspberry .....	.50	2.00	7.00	60.00
Chief Raspberry .....	.50	2.00	7.00	65.00
Sunrise Raspberry .....	.50	2.00	7.00	65.00
Indian Summer Raspberry .....	.60	2.75	9.00	85.00
Sodus Raspberry .....	.45	1.85	6.50	60.00
Eldorado Blackberry .....	.40	1.75	6.00	55.00
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New September Raspberry .....	.60	2.75	9.00	85.00

### SPECIAL

**NEW BLACK HAWK RASPBERRY**—Outstanding new Hybrid Black Raspberry originated by Iowa State College.

	Per 5	Per 25	Per 100	Per 250
No. 1, tips .....	\$1.00	\$4.00	\$16.00	\$37.50
<b>EBONY KING BLACKBERRY</b> —New. Guaranteed to bear fertile blackberry.				
No. 1, R. C. .....	1.00	3.50	13.00	27.50

### FRUIT TREES

NOTICE: All fruit trees except dwarf are 9/16-in. cal. grade, nicely branched, 2-yr. trees. You may order less than 10 of a variety but will be billed at the single rate where less than 10 of a variety are sold.

	Each	Per 10
Apple .....	\$0.85	\$ 8.00
Peach .....	.75	7.00
Pear .....	1.00	9.50
Plum .....	.95	9.00
Sweet Cherry .....	1.10	10.50
Sour Cherry .....	.95	9.00
Apricot .....	1.05	10.00
Nectarine .....	.90	8.50
APPLE VARIETIES: Double Red Delicious, Double Red Jonathan, Anoka, Grimes Golden, McIntosh, Wealthy, Yellow Delicious, Yellow Transparent, Red June, Dolgo, Whitney, Beacon, Northwestern, Greening, Prairie Sp.		
PEACH: Belle of Georgia, Chinese Cling, Dixigem, Elberta, Fairhaven, Golden Jubilee, Halehaven, Redhaven, South Haven, Polly.		
NECTARINE: Sure Crop.		
APRICOT: Moorpark, Superb, Chinese Golden.		
PEAR: Bartlett, Kieffer, Seckel, Beurre Bosc.		
SOUR CHERRY: Montmorency, Early Richmond, Morella.		
SWEET CHERRY: Bing, Black Tartarian, Yellow Glass.		
PLUM: Stanley Prune, Burbank, Damson, Abundance, Yellow Egg.		

### DWARF FRUIT TREES

We have the following dwarf fruit trees in the 7/16-in. cal. grade at the following prices.

	Each	Per 10
Apple .....	\$1.80	\$17.50
APPLE DWARF VARIETIES: Delcon, Okinoma, Red and Yellow Delicious, Yellow Transparent, Jonathan, McIntosh.		

IMPORTANT NOTICE—You do not have to buy 10 of each variety. You may buy whatever amount you wish of any of our fruit trees.

### HARDY CLIMBING VINES

	Each	Per 10
P. Wistaria, 2-yr., medium .....	\$0.50	\$4.50
Silver Lace, 2-yr., medium .....	.50	4.50
O. Bittersweet, 2-yr., medium .....	.50	4.50

## CALIFORNIA ROSES

NOTICE—Here is your chance to buy roses in any assortment you wish. You may buy 1, 5, or 10 or more of any variety in our list. Our roses are all California-grown, No. 1, 2-yr. bushes, stored in our refrigerated, air-conditioned storage where we can keep them in perfect condition until June. Try our roses; they are tops.

### STANDARD HYBRID TEA ROSES

NOTICE: Prices on standard roses, 1 to 10 of a kind, 65c each, 10 or more of a kind, 60c each. Mixed orders of less than 10 of a variety will take the 65c rate.

ETOILE DE HOLLANDE	PINK RADIANCE
CRIMSON GLORY	GOLDEN CHARM
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BLAZE	PAUL'S SCARLET	CLIMBING TALISMAN
FLORADORA		STANDARD FLORIBUNDAS
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### COUNTER SALE CASE

Ready for counter sale, each case contains 25 roses, wrapped in peat moss, pruned, colored picture with planting instructions attached. Improved poly-pak tops. Each case contains 10 assorted reds, 5 pink, 5 two-toned, 3 yellow, 2 white, standard 2-yr., No. 1, tea roses.

PER CASE, 25 ROSES .....\$10.00

### WRAPPED ROSES

We are prepared to furnish any rose variety in this catalog wrapped for counter sale with poly-pak and colored picture with planting instruction for 15c per plant extra charge over bare-root price.

### PATENTED HYBRID TEA ROSES

California-Grown

CHARLOTTE ARMSTRONG (Pat. No. 455). Retail price \$2.00.
CHRYSLER IMPERIAL (Pat. No. 1167). Retail price \$2.50.
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HELEN TRAYBEL (Pat. No. 1018). Retail price \$2.50.
LOWELL THOMAS (Pat. No. 595). Retail price \$2.00.
MIRANDY (Pat. No. 632). Retail price \$2.00.
MOJAVE (Pat. No. 1176). Retail price \$2.75.
NOCTURNE (Pat. No. 713). Retail price \$2.00.
PEACE (Pat. No. 591). Retail price \$2.50.
ROSE OF FREEDOM (Pat. No. 701). Retail price \$2.00.
<b>PATENTED FLORIBUNDA ROSES</b>
RED PINOCHIO (Pat. No. 812). Retail price \$1.75.
PINK PINOCHIO (Pat. No. 484). Retail price \$1.75.
FASHION (Pat. No. 759). Retail price \$2.00.

### ALL PATENTED ROSE PRICES

NOTICE: To find price of all patented roses, refer to retail price after variety name and then use correct line of table below.

Patent Prices—No. 1 Grade	Each	Each	Each
	1 to 9	10 to 20	20 or more
Retail \$1.50 .....	\$1.00	\$0.90	
Retail 1.75 .....	1.15	1.00	
Retail 2.00 .....	1.25	1.10	
Retail 2.25 .....	1.40	1.25	
Retail 2.50 .....	1.60	1.40	
Retail 2.75 .....	1.75	1.50	
Retail 3.00 .....	1.90	1.65	

NOTICE: To earn the 10 rate, 10 or more of the same variety must be ordered. For example an order for 6 Peace, 7 Spartan and 4 Mirandy will be invoiced at the 1 to 9 rate for each variety.

### PATENTED FLORIBUNDA ROSES

JIMINY CRICKET (Patent No. 1346). Retail price \$2.25.
SPARTAN (Patent No. 1359). Retail price \$2.75.
CIRCUS (Patent No. 1392). Retail price \$2.50.
GOLD CUP (Patented). Retail price \$2.50.
GOLDLOCKS (Patent No. 672). Retail price \$1.75.
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18 to 24 ins., 2-yr., 50c each, 10 or more of a variety, 45c each. Smoke Tree, Spiraea Anthony Waterer, Spiraea vanhouttei, Flowering Almond, Buddleia de France, Hydrangea P.G., Hydrangea A.G., Philadelphus Virginal, Snowball, Deutria, Pride of Rochester, Red Dogwood, Forsythia (Golden Bell), Weigela rosea, Lilac rothomagensis, Spiraea hillardii, Flowering Quince, Blue Mist Spiraea, Tamarix, Ninebark, Zabel Honeysuckle, Beauty Bush, Viburnum.

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	Per 100
Amur River North Privet .....	\$13.00
Spiraea Vanhouttei .....	13.00
Tartarian Red Honeysuckle .....	15.00

All above hedging 12 to 18-in. grade.

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Pfitzer Juniper

Forsythia Lynwood Gold (top)  
Forsythia Spring Glory (bottom)Pyracantha Kasan (top)  
Pyracantha Lalandi (bottom)

Andorra Juniper

## QUALITY STOCK

	Each
Andorra Juniper (Juniperus horizontalis plumosa), 6 to 10 ins.....	\$0.05
Euonymus patens Small, medium or large- leaved, 6 to 10 ins.....	.04
Pyracantha Kasan 5 to 6 ins.....	.08
Pyracantha Lalandi 5 to 6 ins.....	.05
Forsythia Spring Glory 6 to 10 ins.....	.04
Forsythia Lynwood Gold 6 to 10 ins.....	.05
Pfitzer Juniper 6 to 10 ins.....	.08

See classified ad under lining-out stock for other items. Less than 300, total order, add 2c per plant.

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a certain amount of wonderment that the plant has made so little headway in gardens where it would be hardy.

There seems to be no information on its exact hardiness, but I suspect it would be safe in the open, south of the Cincinnati latitude. It definitely was not hardy in northern Michigan, and we were permitted to see its charms only when it was grown in pots. The experience told me that it should make a splendid garden ornament where it is hardy.

To me, a large part of the plant's charm is in its foliage—broad, strap-shaped leaves with soft hairs—almost white, as much as 18 inches long (hence the specific name). It is said to send up foot-tall stems in the open (taller in rich soil), but plants were closer to two feet in good potting soil indoors. Each scape will bear a large ball of pale lilac-colored flowers. It will be then a pretty picture.

Where it is hardy, I can see that it would be one of summer's best offerings and a plant of much landscape value. I recall a statement by Boothman, a noted English nurseryman, in the National Horticultural magazine some 20-odd years ago, that the plant shows up best in the landscape when it is given a dark background—a happy suggestion, I should say, considering its foliage color.

### Dictamnus

One can depend upon a plant bearing many common names having long been in gardens, either as an ornament or for economic reasons. Dictamnus, known to gardeners through the centuries as gas plant, dittany, fraxinella and burning bush, has long been known in gardens in a medicinal role and in modern times among good gardeners as an ornament. Perhaps it would be more correct to say "pre-modern," because it seems to have lost ground during the past 50 years.

It may be that I put too much stress on fragrance in plants, but that is a part of my nature which I could not overcome if I would. One reason I like the gas plant, Dictamnus albus, is its fragrance. Another reason, I suspect, is its long association with gardeners. And I also suspect there are many other moderns who have the same feeling so far as old plants are concerned. Then, of course, the facts that it is one of the better landscape plants and its almost indestructible even under neglect endears it to me and would endear it to most gardeners after they knew all its virtues.

It is true, to be sure, that dictam-

# BOYD'S - Surplus List

We have the following list of surplus nursery stock—all first class in every respect—in our storage and heel-in yards, ready for immediate shipment.

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(Order in multiples of ten.)

	Per Each		Per Each
500 <b>Crimson King Maple</b> , 2 to 3 ft., whips.	\$1.50	200 <b>Kwanzan Flowering Cherry</b> , 4 to 5 ft.	\$2.75
300 3 to 4 ft., whips.	1.75	250 <b>Norway Maple</b> , 6 to 8 ft., Tr., well-br.	2.50
300 4 to 5 ft., whips.	2.25	250 <b>Norway Maple</b> , 8 to 10 ft., Tr., well-br.	3.00
500 5 to 6 ft., whips.	2.75	100 <b>European White Birch</b> , 4 to 5 ft., br.	1.00
200 6 to 8 ft., whips.	3.25	100 5 to 6 ft., br.	1.25
1000 <b>Mimosa Tree</b> , whips, 4 to 5 ft.	.40	100 6 to 8 ft., br.	1.50
1000 5 to 6 ft.	.60	100 8 to 10 ft., br.	2.00
1000 8 to 10 ft.	.75	1000 <b>Liriodendron (Tulip Poplar)</b> , 6 to 8 ft., br.	1.00
100 <b>Weeping Cherry</b> , pink, 5 to 6 ft., No. 1 heads.	6.00	500 <b>Liriodendron (Tulip Poplar)</b> , 8 to 10 ft., br.	1.25
100 <b>Weeping Cherry</b> , pink, 5 to 6 ft., No. 2 heads.	5.00	1000 <b>American Sycamore</b> , 5 to 6 ft., br.	.60
		1000 6 to 8 ft., br.	.75
		500 8 to 10 ft., br.	1.00

## EXTRA SPECIAL

	Per 1000	Per 10,000
10,000 <b>White Dogwood</b> , 4 to 6 ins., S.	\$20.00	\$150.00
10,000 6 to 12 ins., S.	30.00	250.00
10,000 12 to 18 ins., S.	40.00	350.00

Strong, 1-Yr., Field-Grown Plants

	Per 1000
5000 <b>Red Barberry</b> , 2-yr., S., 6 to 12 ins.	\$ 75.00
3000 2-yr., S., 12 to 15 ins.	100.00
3000 2-yr., S., 15 to 18 ins.	150.00

Strong, 2-Yr., Field-Grown

(Order in multiples of 25.)

	Per Each		Per Each
2000 <b>Pink-flowering Dogwood</b> , 12 to 18 ins.	\$0.70	<b>Pink-Flowering Dogwood—Continued</b>	
2000 18 to 24 ins.	.90	1000 3 to 4 ft.	\$1.50
2000 2 to 3 ft.	1.00	1000 4 to 5 ft.	3.00

## FLOWERING SHRUBS

Well-Branches (Order in multiples of 25.)

	Per Each		Per Each
5000 <b>Forsythia spectabilis</b> , 18 to 24 ins., br.	\$0.20	2500 <b>Hydrangea Pee Gee</b> , 12 to 18 ins., br.	\$0.15
2500 <b>Forsythia spectabilis</b> , 2 to 3 ft., br.	.25	2500 18 to 24 ins., br.	.20
3000 <b>Forsythia fortunei</b> , 18 to 24 ins., br.	.15	2500 2 to 3 ft., br.	.30
3000 <b>Forsythia fortunei</b> , 2 to 3 ft., br.	.20	2000 <b>Philadelphus coronarius</b> , 18 to 24, br.	.15
2000 <b>Weigela rosea</b> , 18 to 24 ins., br.	12 1/2	3000 2 to 3 ft., br.	.20
2000 2 to 3 ft., br.	.15	1000 3 to 4 ft., br.	.30
1000 3 to 4 ft., br.	.20	2000 <b>Cydonia japonica</b> , 12 to 18 ins., br.	.20
3000 <b>Weigela, Variegated</b> , two-tone, 18 to 24 ins., br.	.20	2000 18 to 24 ins., br.	.30
3000 2 to 3 ft., br.	.30	2000 2 to 3 ft., br.	.40
1000 <b>Pussy Willow</b> , 18 to 24 ins., br.	.15	3000 <b>Honeysuckle, Tartarian</b> , pink, 18 to 24 ins., br.	.10
1000 2 to 3 ft., br.	.20	3000 2 to 3 ft., br.	.15
500 3 to 4 ft., br.	.25	2000 <b>Honeysuckle, fragrantissima</b> , 18 to 24 ins., br.	.15
2000 <b>Spiraea vanhouttei</b> , 18 to 24 ins., br.	.15	2000 2 to 3 ft., br.	.20
2000 2 to 3 ft., br.	.20		

Send your order today. Stock dormant and in good condition. Write, wire or call.

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McMINNVILLE, TENN.



## Nursery Liners and Christmas Tree Stock Spring, 1958

	Per 100	Per 1000	Per 1000 for 10,000 or more
<b>Riga Scotch Pine</b>			
• (2-0), 6 to 10 ins.....	\$10.00	\$ 36.00	\$35.00
• (2-0), 4 to 8 ins.....	7.50	26.00	24.00
(2-0), 3 to 6 ins.....	6.00	24.00	22.00
(2-0), 2 to 4 ins.....	5.00	16.00	14.00
<b>Scotch Pine, Auvergne, race Noble</b> (So-called French blue)			
(2-0), 3 to 6 ins.....	7.50	26.00	24.00
<b>Austrian Pine</b>			
(2-0), 3 to 6 ins.....	6.00	24.00	22.00
<b>Douglas Fir, caesia, green to gray</b>			
(2-0), 4 to 8 ins.....	6.00	28.00	26.00
<b>Douglas Fir, taxifolia glauca, green to blue</b>			
(2-0), 4 to 8 ins.....	6.00	28.00	26.00
<b>Colorado Blue Spruce</b>			
• (3-0), 4 to 8 ins.....	9.00	45.00	42.50
(3-0), 2 to 4 ins.....	6.00	26.00	24.00
<b>Black Hills Spruce</b>			
• (3-0), 4 to 8 ins.....	8.00	40.00	37.50
(3-0), 2 to 4 ins.....	6.00	25.00	23.00
<b>White Spruce</b>			
• (3-0), 5 to 10 ins.....	8.00	45.00	40.00
(3-0), 3 to 5 ins.....	6.00	25.00	23.00
<b>Norway Spruce</b>			
(3-0), 5 to 10 ins.....	8.00	45.00	40.00
(3-0), 3 to 5 ins.....	6.00	25.00	23.00
<b>Mugho Pine, Montana</b>			
4 to 6 ins., X.....	25.00	150.00	....
<b>Mugho Pine, Tyrolean</b>			
(2-0).....	5.00	30.00	....
<b>Ponderosa Pine</b>			
(2-0), 2 to 5 ins.....	5.00	22.00	....
<b>Norway Pine</b>			
(2-0), 2 to 4 ins.....	5.00	20.00	....
<b>White Pine</b>			
(2-0), 2 to 4 ins.....	5.00	20.00	....
<b>Taxus cuspidata capitata</b>			
from seed, sheared			
8 to 12 ins., XX.....	80.00	....	....
6 to 8 ins., XX.....	45.00	....	....
<b>White Birch</b>			
2 to 4 ft., XX.....	75.00	....	....

\*Write for price on 50,000 or more.

TERMS: Cash with order, please, or 1/3 deposit, balance before shipment. 50 at 100 rate, 500 at 1000 rate, all seedlings sold in multiples of 50, all transplants sold in multiples of 10. Minimum order \$10.00. Packing charges included in price of trees.

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Collectors of Tree, Shrub and  
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E. C. MORAN, Stanford, Mont.

nus is seen in some modern gardens, but never so frequently as it should be and more often than not in single specimens, unless the garden is an old one and its owner is a lover of fragrant things. But the gas plant should be planted in masses to bring out the beauty of its flowers and leaves and the charm of its fragrance. The neighborhood grower could foster the idea by making a show planting, perhaps using the idea advanced by George Ellwanger, a noted nurseryman and horticultural writer of the preceding century, who suggested that it be planted "along your favorite walk with the lemon balm and the anise-scented, giant hyssop, so that you may pluck a leaf of them as you pass by." The way it suits me best as a landscape ornament is in large groups against a dark green background, as against a hemlock or lilac hedge.

Happily for the creator of landscape pictures, the plant is contented with full sun or part shade, the former being preferred. There is an idea abroad among gardeners that the plant resents disturbance, but I never found this to be markedly true. The plant becomes sizable the second year from seeds. Care must be taken not to break the long taproot if the plant is field grown.

### Marsh Marigold

A New York correspondent has a boggy spot to plant and asks for a suggestion for an early spring bloomer, saying that he has the rest of the garden year covered. I doubt if I could make a better suggestion than the marsh marigold, *Caltha palustris*, if I thought all day. It is one of the earliest showy yellow flowers of spring. It produces an ample clump of large (to six inches across) cordate leaves, overtopped by showery, up to two inches across, of bright yellow flowers on stems to 18 inches or more, commencing in April and lasting until June. Although it grows best in moist places, as in a running stream or a bog, it will do fairly well in rich, leafy soil in shade, if it is not allowed to dry out entirely. It is best propagated from divisions in late autumn.

### PENN STATE COURSE

Applications are now being received for enrollment in the ornamental nursery management winter course, which will begin at Pennsylvania State University, University Park, on November 3. Designed for young men interested in preparing themselves for careers in the nursery trade, the course consists of two 8-

# Sell the **NEW FERTILEZE** LINE

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America's only Complete Line of Soluble Plant Foods and Applicators

### 3 OUTSTANDING PLANT FOOD APPLICATORS

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Operates on any water pressure—any distance—no moving parts—and is unconditionally guaranteed. Don't miss the boat—stock the Flow Mixer.

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Get to the Roots—

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Professional quality but priced for any home gardener. Has heavy-duty  $\frac{1}{2}$ " (O.D.) steel shaft, 2½ ft. long, machined aluminum handle—sharp, easy-to-insert tooled steel point. Quick cut-off stainless steel valve. Six-way spray won't clog.

Your customers will use the root feeder alone to irrigate—with the Flow Mixer to apply plant foods or pesticides deep down—when they are needed—where they are needed—Take one out of stock and use it yourself to keep that favorite tree or shrub in perfect health this year.



#### "Jet-Action" HAND SPRAY

Feeds as  
you water



Meets the need for a good simple-to-operate hand sprayer. Applies plant food and other materials quickly, easily, without mess and waste. Not plastic—not pot metal but a machined aluminum head that won't rust. 3-speed brass control valve for uniform application. To operate, your customer just fills the pint-jar glass container, attaches unit to hose, turns on water, and sprays life-giving plant food. For foliar or regular feeding of anything that grows. Complete instructions right on the container. Packaged in attractive multi-colored self-displaying box.

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12-oz. Poly Bag  
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twelve 12-oz. bags  
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More than just the basic plant food—also contains 14 other elements in a balanced formula that leading soil research chemists say is necessary for proper plant growth and health.

Your customer doesn't wait, worry, or guess when you recommend Fertilize—It's quick acting, immediately soluble, immediately available to the plant. You can see the difference often within 48 hours—your customers get top results—they buy—and buy again.

Fertilize can be applied in many ways—by dipping, spraying, sprinkling, or with one of the Fertilize precision-engineered applicators shown at the left.

Small sizes are packaged in multi-colored self-selling packages—bulk sizes in economy drums.

Fertilize is not a promotional growth stimulant—not a wonder drug—it is a pure, concentrated balanced plant food with all the essential elements—just what Mother Nature intended to make plants grow—fast!

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Get them started on the "Try-It" Kit now—step them up to the Super Gardener Kit later. "Try-It" contains six 12-oz. "Poly" bags of Fertilize, one "Jet-Action" Hand Sprayer and the instructive Plant Feeding Guide. Packaged in multi-colored self-displaying carton.

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Use Fertilize for top results! Put the Flow Mixer and Root Feeder to work and save hours of labor. Start by writing for special "Professional User Information" and bulk plant food price list.

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You'll find Fertilize the highest quality soluble plant food—perfect for feeding all nursery stock and trees—by any method of application, and especially with irrigation water.

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Rush us complete information and wholesale prices on the New Fertilize line.

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Company \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_

## SPRING, 1958

### A few items in quantity.

Juniper, Pfitzer, 12 to 15 ins., 15 to 18 ins., 18 to 24 ins., 2 to 2 1/2 ft.

Other Junipers in variety.

Dogwood White, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

Dogwood Pink, 3 to 4 ft., 4 to 5 ft.

Crab Apple, Hops and Eleyi, 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

Crab Apple, Bechtel's Double-Flowering, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft., 5 to 6 ft.

Elm, Chinese, 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal., 2-in. cal., 2 1/2-in. cal.

These Elms have unusually straight stems.

Maple, Norway, 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal., 2-in. cal., 2 1/2-in. cal.

Maple, rubrum, 1 1/4-in. cal., 1 1/2-in. cal., 2-in. cal., 2 1/2-in. cal.

Maple, schwedleri, 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal.

Maple, Soft, 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal.

Locust, Thornless, 6 to 8 ft., 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal.

Oak Pin, 1 1/4-in. cal., 2-in. cal.

Redbud, 3 to 4 ft., 4 to 5 ft.

Thorn, cordata, 4 to 5 ft., 5 to 6 ft., 6 to 8 ft.

Thorn, crugallii, 3 to 4 ft., 4 to 5 ft.

Cornus paniculata, 3 to 4 ft., 4 to 5 ft.

Cotoneaster divaricata, 2 to 3 ft., 3 to 4 ft.

Privet, Amur North, 3-yr., heavy, 12 to 18 ins., 18 to 24 ins., 2 to 3 ft.

Privet, ibolium, 3 to 4 ft., 4 to 5 ft.

Purple Fringe, 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

Spiraea vanhouttei, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.

Viburnum dentatum, 3 to 4 ft., 4 to 5 ft.

Weigela rosea, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.

Forsythia Spring Glory, 3 to 4 ft., 4 to 5 ft.

Forsythia spectabilis, 4 to 5 ft., 5 to 6 ft.

Philadelphus coronarius, 3 to 4 ft., 4 to 5 ft.

Apricots, heavy, XX

Apple, 1-yr., 4 to 5 ft., 5 to 6 ft.

Apple, 2-yr., 11/16-in. cal. and XX

Cherry, Montmorency, 2-yr., XXX, XX, 11/16-in. cal.

Plum and Pear, 2-yr., XX, 11/16-in. cal.

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### AT WHOLESALE PRICES

Fruit Trees — Small Fruit — Shade Trees

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Write for complete wholesale catalog.

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### BALTIC IVY

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Rooted cuttings ..... \$ 5.00 \$ 45.00

2 1/4-in. pots ..... 15.00 135.00

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Rooted cuttings ..... 5.00 45.00

2 1/4-in. pots ..... 15.00 135.00

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We can make immediate shipment of first-class, freshly cut divisions. Express or motor freight. See classified ad or inquire for large quantity prices.

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Hamburg, Ia.

week periods of training a year for two years. Students enrolled in this program are aided in finding employment in nurseries for on-the-job training between years of the program.

The training consists of identification, propagation, production, culture, landscape value and maintenance of trees, shrubs and perennial and annual flowers. High school graduates are eligible for enrollment. The high school graduation requirement is waived for those who demonstrate maturity and purposeful interest and have had experience in ornamental nursery or related work.

### PENNSYLVANIA COURSE

Nurserymen and landscape contractors, as well as homeowners, are invited to a short course concerned with home grounds improvement to be offered July 7 to 11 by the Pennsylvania State University at its campus at University Park, Pa. Instruction will be given in selection, planting, pruning and maintenance of plant materials; planning of home grounds; construction of dry walls and other landscape features; establishment and maintenance of lawns, and insect and disease control. The course will be conducted by members of the college faculty.

### NEW YORK NURSERY FIRE

A fire, apparently spreading from an oil heater, completely destroyed the Butternut Garden Center and quarters of an adjacent landscape firm, Sky Hooke, Inc., Fayetteville, N. Y., after the center closed for the evening February 24. All stock and records of the Butternut company were lost in the blaze, which caused damage estimated by the proprietor, Clark Kerschner, at \$100,000.

### NEW ROSELLINI ROSE

The Howard Rose Co., Hemet, Calif., is introducing a new rose named in honor of Albert D. Rosellini, governor of the state of Washington, who has long been identified as a rose enthusiast. The Rosellini rose, developed by Robert Lindquist, vice-president of Howards of Hemet, is a deep red grandiflora. Fifty of the roses were recently planted on the grounds of the state capitol, Olympia, and in the private rose garden of the governor's mansion. Fifty more were planted at the entrance of the Municipal Center building, where the Pacific northwest district convention of the American Rose Society will be held.



# DECIDUOUS STOCK

Available for immediate shipment. All two-year, field-grown stock.

## SHRUBS

	Each Per 10	Each Per 100
<b>Almond, pink-flowering,</b> own root		
9745 18 to 24 ins., br...	\$0.30	\$0.25
<b>Althaea anemoneiflora,</b> double pink		
1117 8 to 12 ins., L.O.	.06	.05
125 12 to 18 ins., br...	.20	.15
830 18 to 24 ins., br...	.25	.20
2700 2 to 3 ft., br...	.30	.25
5000 3 to 4 ft., br...	.35	.30
1480 4 to 5 ft., br...	.40	.35
<b>Althaea Lady Stanley,</b> double pink		
2110 2 to 3 ft., br...	.30	.25
1165 3 to 4 ft., br...	.35	.30
<b>Althaea paeoniflora,</b> double pink		
425 18 to 24 ins., L.O.	.06	.05
230 18 to 24 ins., br...	.25	.20
2530 2 to 3 ft., br...	.30	.25
3440 3 to 4 ft., br...	.35	.30
<b>Althaea Arden,</b> double blue		
150 6 to 12 ins., L.O.	.04	.03½
236 12 to 18 ins., L.O.	.05	.04
895 18 to 24 ins., L.O.	.06	.05
1525 12 to 18 ins., br...	.20	.15
650 18 to 24 ins., br...	.25	.20
1790 2 to 3 ft., br...	.30	.25
2815 3 to 4 ft., br...	.35	.30
<b>Althaea purpurea semi-plena,</b> double purple		
250 18 to 24 ins., br...	.25	.20
860 3 to 4 ft., br...	.35	.30
<b>Althaea Boule de Feu,</b> double red		
3140 3 to 4 ft., br...	.35	.30
395 4 to 5 ft., br...	.40	.35
153 4 to 5 ft., br. (extra-heavy)	.00	.50
<b>Althaea Lucy,</b> double red		
3730 3 to 4 ft., br...	.35	.30
685 4 to 5 ft., br...	.40	.35
<b>Althaea Rubra,</b> single red		
35 18 to 24 ins., L.O.	.06	.05
700 3 to 4 ft., br...	.35	.30
<b>Althaea Jeanne d'Arc,</b> double white		
283 12 to 18 ins., br...	.20	.15
50 18 to 24 ins., 2 br.	.20	.15
275 18 to 24 ins., br...	.25	.20
<b>Barberry, red-leaved</b>		
755 24 to 30 ins., br...	.40	.35
1195 30 to 36 ins., br...	.45	.40
<b>Buddleia farquharii,</b> purple		
925 1-yr., L.O.	.06	.05
580 No. 2	.15	.10
<b>Buddleia Pink Charming</b> 1190 1-yr., L.O.	.06	.05
<b>Callicarpa purpurea</b>		
90 12 to 18 ins., L.O.	.06	.05
400 18 to 24 ins., L.O.	.07	.06
180 12 to 18 ins., br...	.15	.10
<b>Cydonia japonica rubra</b>		
2350 12 to 18 ins., L.O.	.12	.10
210 12 to 18 ins., 2 br.	.25	.20
110 18 to 24 ins., 2 br.	.30	.25
110 2 to 3 ft., 2 br.	.35	.30
<b>Deutzia Pride of Rochester</b>		
50 12 to 18 ins., L.O.	.06	.05
930 2 to 3 ft., br...	.25	.20
105 3 to 4 ft., br...	.30	.25
15 4 to 5 ft., br...	.35	.30

## SHRUBS

	Each Per 10	Each Per 100
<b>Deutzia rosea</b>		
25 12 to 18 ins., L.O.	\$0.06	\$0.05
125 18 to 24 ins., L.O.	.07	.06
75 12 to 18 ins., 2 br.	.10	.08
475 12 to 18 ins., br...	.15	.10
125 18 to 24 ins., 2 br.	.15	.10
1140 18 to 24 ins., br...	.20	.15
610 2 to 3 ft., br...	.25	.20
140 3 to 4 ft., br...	.30	.25
<b>Foraythia Spring Glory</b> 660 2 to 3 ft., 3 br...	.27½	.22½
<b>Foraythia spectabilis</b>		
475 6 to 12 ins., L.O.	.04	.03½
750 12 to 18 ins., L.O.	.05	.04
1250 18 to 24 ins., L.O.	.06	.05
188 2 to 3 ft., 3 br...	.22½	.17½
1675 3 to 4 ft., br...	.30	.25
54 4 to 5 ft., br...	.35	.30
<b>Honeysuckle, heckrottii</b>		
325 L.O.	.10	.08
680 No. 2	.20	.15
1860 No. 1½	.25	.20
1180 No. 1	.30	.25
<b>Honeysuckle, zabeli</b>		
75 6 to 12 ins., L.O.	.04	.03
200 12 to 18 ins., L.O.	.05	.04
225 18 to 24 ins., L.O.	.06	.05
<b>Honeysuckle, fragrantissima</b>		
25 6 to 12 ins., L.O.	.05	.04
800 18 to 24 ins., L.O.	.07	.06
800 12 to 18 ins., 2 br.	.12	.10
1000 12 to 18 ins., br...	.20	.15
1300 18 to 24 ins., 2 br.	.20	.15
2000 18 to 24 ins., br...	.25	.20
650 3 to 4 ft., br...	.35	.30
<b>Honeysuckle, morrowii</b>		
25 6 to 12 ins., L.O.	.04	.03½
150 12 to 18 ins., L.O.	.05	.04
325 18 to 24 ins., L.O.	.06	.05
<b>Hydrangea, blue</b>		
275 1-yr., field-grown	.30	...
<b>Philadelphus coronarius</b>		
100 6 to 12 ins., L.O.	.04	.03
300 12 to 18 ins., L.O.	.05	.04
50 18 to 24 ins., L.O.	.06	.05
620 2 to 3 ft., br...	.25	.20
705 3 to 4 ft., br...	.30	.25
<b>Philadelphus Virginal</b>		
100 18 to 24 ins., 2 br.	.25	.20
15 2 to 3 ft., 2 br...	.30	.25
	Each Per 100	Each Per 1000
<b>Privet, Regel's</b>		
240 9 to 12 ins., br...	\$0.15	\$0.10
340 12 to 15 ins., br...	.17½	.12½
480 15 to 18 ins., br...	.20	.15
<b>Privet, Amur River North</b>		
6 to 12 ins., L.O.	.03	.02½
12 to 18 ins., L.O.	.03½	.03
9 to 12 ins., br...	.06	.05
2 to 3 ft., br...	.09½	.08½
3 to 4 ft., br...	.10½	.09½
<b>Privet, ibolium</b>		
450 6 to 12 ins., L.O.	.03	.02½
2375 12 to 18 ins., L.O.	.03½	.03
1825 18 to 24 ins., 2 br.	.07	.06
1150 9 to 12 ins., br...	.06	.05
1450 12 to 18 ins., br...	.07	.06
980 2 to 3 ft., br...	.09½	.08½
6315 3 to 4 ft., br...	.10½	.09½
965 4 to 5 ft., br...	.11½	.10½
<b>Rosa Paul's Scarlet,</b> climber		
100 L.O.	.15	.10
840 No. 2	.25	.20
<b>Rosa Pink Grootendorst</b>		
495 No. 1	.35	.30
<b>Rosa Austrian Copper</b>		
122 L.O.	.15	.10

## SHRUBS

	Each Per 10	Each Per 100
<b>Rosa hugonis</b>		
250 L.O.	\$0.15	\$0.10
400 No. 2	.20	.15
250 No. 1½	.30	.25
90 No. 1	.35	.30
	Each Per 10	Each Per 100
<b>Spiraea Anthony Waterer</b>		
850 12 to 15 ins., br...	\$0.30	\$0.25
260 15 to 18 ins., br...	.35	.30
300 24 to 30 ins., br...	.45	.40
<b>Spiraea froebeli</b>		
300 12 to 15 ins., br...	.25	.20
1000 15 to 18 ins., br...	.30	.25
1000 18 to 24 ins., br...	.35	.30
750 24 to 30 ins., br...	.40	.35
<b>Spiraea opulifolia aurea</b> (Golden Ninebark)		
825 12 to 15 ins., br...	.15	.10
370 18 to 24 ins., 2 br.	.15	.10
330 18 to 24 ins., br...	.20	.15
510 2 to 3 ft., 2 br...	.20	.15
2380 3 to 4 ft., br...	.30	.25
480 4 to 5 ft., br...	.35	.30
<b>Weigela rosen,</b> pink		
200 12 to 18 ins., L.O.	.06	.05
1150 18 to 24 ins., L.O.	.09	.07
1315 4 to 5 ft., br...	.40	.35
<b>Weigela Eva Rathke,</b> red		
200 12 to 18 ins., L.O.	.10	.07½
1400 18 to 24 ins., L.O.	.12	.10
2625 12 to 18 ins., br...	.25	.20
1800 18 to 24 ins., br...	.30	.25
2710 2 to 3 ft., 2 br...	.30	.25
465 3 to 4 ft., br...	.40	.35
1425 18 to 24 ins., 2 br.	.25	.20
1225 12 to 18 ins., 2 br.	.20	.15
<b>Weigela vaniceki,</b> red		
290 18 to 24 ins., L.O.	.15	.12

## TREES

	Each	Each
<b>Cornus florida rubra,</b> 2-yr.		
300 5 to 6 ft., B&B.	\$4.50	
	Each Per 10	Each Per 100
<b>Lombardy Poplar,</b> 1-yr.		
125 18 to 24 ins.	\$0.06	\$0.05
<b>Willow, Niobe,</b> 2-yr.		
465 5 to 6 ft.	.75	.50
<b>Willow, babylonica,</b> 1-yr.		
20 2 to 3 ft.	.20	...
120 3 to 4 ft.	.40	.30
410 4 to 5 ft.	.60	.40
335 5 to 6 ft.	.75	.50
<b>Peach, red-flowering</b>		
80 2 to 3 ft.	.35	...
	Each	Each
<b>Abelia grandiflora,</b> heavy		
470 12 to 18 ins., br., B.R.		
2-yr., T.	\$0.30	
<b>Magnolia soulangeana,</b> field-grown		
222 12 to 18 ins., L.O., B.R.		
2-yr., T.	.50	
950 18 to 24 ins., L.O., B.R.		
2-yr., T.	.60	
760 12 to 18 ins., br., B.R.		
2-yr., T.	.75	
778 18 to 24 ins., br., B.R.		
2-yr., T.	1.00	
35 3 to 4 ft., br., B.R., 2-yr., T.	1.50	
<b>Magnolia nigra,</b> field-grown		
40 18 to 24 ins., br., B.R.		
2-yr., T.	1.00	

Cash with order unless credit established with us. Quotations gladly submitted on large quantities.

## MORNING STAR NURSERY

RIVES, TENNESSEE

On U. S. Highway 45-W, 60 miles south of Cairo, Ill.

# Container-Growing, Topic At Propagators' Meeting

Reported by Fred C. Galle

Additional summaries of talks presented at the Plant Propagators Society meeting at Cleveland, O., early this year follow. Presented in previous issues of this magazine were accounts of the business sessions and of the talks on spruce propagation, propagation of annuals and perennials, propagating viburnums, seedling production in mulch beds, synthetic aids for rooting, dwarfing techniques and handling unusual plants. The material on propagating in containers given here will be followed in later issues with summaries of talks on use of plastic structures and propagating broad-leaved evergreens.

## Propagating in Containers

Jack Hill, D. Hill Nursery Co., Dundee, Ill., discussed propagating plants directly in containers. Mr. Hill mentioned that this is done to eliminate "down" time, or moving and shifting, which is often required in the propagating of plants. He reported on some experiments on the grafting of junipers on unrooted Hetz cuttings, which were plunged directly into pots. He also reported on direct hardwood propagation of some easily rooted plants, such as Arctic willow and red-leaved plum, which were put directly into gallon cans and covered with large Dixie cups late in the spring. Successive portions of the cup were removed to increase aeration gradually. He mentioned that the growth rate of these plants was double that obtained in the normal hardwood procedure, because the roots were not disturbed by repotting or shifting.

A study on propagating plants for container production by sticking hardwood cuttings directly in the container was reported by Dr. Kenneth Reisch, department of horticulture, Ohio State University, Columbus. In these tests, Dr. Reisch put one to four cuttings in each container during the months of January and February. The cuttings were stored for a 2-week period at 40 degrees and then placed in a higher temperature. The medium used consisted of equal parts of soil, sand and peat moss. Dr. Reisch advised that three cuttings per container were enough for most varieties. He also advised rooting hard-

wood cuttings indoors and then placing them in cans during the spring. Liquid fertilizer is applied to the container-grown cuttings every two weeks during the season.

## Container Pointers

Frank Turner, Berryhill Nursery, Springfield, O., was moderator for the afternoon discussion on the "Propagation and Culture of Container Stock." Presenting the outlook for container culture in the north, he pointed out that the practice induces industrialization of the nursery industry. He emphasized that the plans one sets up for the operation must be adapted to his own area and sales volume.

Container-grown stock offered by the Berryhill Nursery includes—in addition to standard items, such as pyracanthas, cotoneasters and conifers—such novelty plants as red barberry and yellow privet and a selec-

tion of large stock, such as flowering crab apples and hawthorns, in 5-gallon cans. Mr. Turner pointed out the importance of having a good site for container growing. There should be good drainage. The tools, water, fertilizer and buildings required for a container growing operation were cited. Mixing and conveyor equipment is necessary, and soil sterilization equipment is important. Equal parts of soil, sand and peat were first used for container stock, but the plan now is to use a 1-2-2 mixture of the ingredients named. Fertilization is handled with application of urea-formaldehyde nitrogen, one teaspoonful per gallon can. Plants are also fed at 10-day intervals throughout the summer with a 20-10-15 fertilizer. Water is normally required every day, and mechanized watering, with some hand watering, is necessary.

Protection is required for some plants; however, others are quite satisfactory if left on top of the ground. In general, winter protection is given by placing the plant containers close together and banking the sides of the bed with wood chips. Other plants require additional mulching with corn cobs.

Walter Lee, Monrovia Nursery,

## SUNBURST

(Plant Patent 1313)

The spectacular new Honey Locust with the first new tree color in decades.

Write up for complete information and catalog listing all items.

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Hydrangea P. G.

Hydrangea P. G. (Tree Form)

Ornamental Trees

Grapevines, 1-yr. and 2-yr.

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 **RARE and UNUSUAL BULBS**  
FREE list on request  
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## INTRODUCING EUONYMUS PAULI

Bush type, holds good green color all winter, shears well. We have grown this plant 5 years. We think it is the best. Samples at cost.

Rooted cuttings, ready now, \$10.00 per 100; \$8.00 per 1000.

1-yr., field-grown, well-br., \$25.00 per 100.

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None better grown. Conscientiously dug and graded. Bare root, wrapped or potted. Also lining-out and finished nursery stock. Reliable wholesale service since 1921.

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Bed stock—Liners  
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Now—for the first time, your customers can have All-America Mums—the first winners in the test gardens of the All-America Mum Selections! This organization of Mum experts has been set up on a competitive basis to determine the NEW CHAMPION MUMS for America each year. Each entry is tested for two years and scored impartially. The winners for 1958 are:

## Burning Bronze • Emperor • Ruby King • Showpiece



### BURNING BRONZE

Pl. Pat. App. for. Tangerine, bronze and orange medley—a spirited splash of fall color. Very free, vigorous 2½-foot bush loaded with 2½-inch blossoms. Wonderful cutting sprays. A real knockout! Suggested retail—\$1.50 each; 3 for \$3.75. Wholesale—25 for \$16.25; 100 for \$50.00; 200 for \$90.00.

### EMPEROR

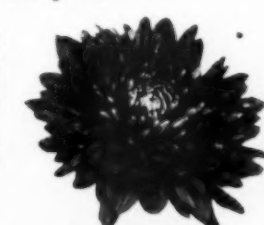
Pl. Pat. App. for. Opens from bright bronze buds with orange tints into the sunniest of yellows—fine, clear and rich. Very double, generous blooms. Vigorous, compact, shapely. Tops indoors or out! Suggested retail—\$1.50 each; 3 for \$3.75. Wholesale—25 for \$16.25; 100 for \$50.00; 200 for \$90.00.

### RUBY KING

Pl. Pat. App. for. Best dark red cushion of the day. Brilliant, shining red flowers cover a shapely, low-growing plant. Ideal for walks and borders. Grows 12 to 15 inches high with 15 to 18-inch spread. Sensational! Suggested retail—\$1.50 each; 3 for \$3.75. Wholesale—25 for \$16.25; 100 for \$50.00; 200 for \$90.00.

### SHOWPIECE

Pl. Pat. App. for. Rich, sparkling royal rose with silver-mist centers and reverse. Huge flowers are full and shapely. Wonderful sprays and single blooms for cutting. Really superb in every way! Suggested retail—\$1.50 each; 3 for \$3.75. Wholesale—25 for \$16.25; 100 for \$50.00; 200 for \$90.00.



Special AAMS Group Introductory Offer!!!  
25 EACH of All \$52.50 50 EACH of All \$92.50  
Four Winners Four Winners

None Genuine without this Patent Tag attached. Look for it! →

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### BRISTOL NURSERIES

Bristol 226, Connecticut

### THE CONARD-PYLE COMPANY

West Grove 220, Pennsylvania

### R. M. KELLOGG COMPANY

Three Rivers 231, Michigan

Azusa, Calif., reported on the "California Concept in Container Production." He said that container growing permits mass production for purchase at low price and plants are sold and planted 12 months a year in a steady flow, with peak seasons in the spring and fall. The plants are sold by the size of the container—1-gallon or 3-gallon plants. The high cost of land in California has necessitated container growing, for one can place 96,000 gallon cans on an acre. Container stock has the root ball intact, as compared with field stock.

### Shipping Plants

Plants can be shipped long distances for immediate sale. An average load on a semi-truck is 4,000 to 5,000 gallon cans. Landscape preference is turning to gallon can sizes, which require less replacement because of a lower mortality rate. Smaller canned stock is as large as B & B stock at the end of one growing season. Containers offer a neat and attractive package for immediate sales.

Mr. Lee stressed the importance of a good stock block as a source of cutting material. In some cases, rooted cuttings are placed in pots and transferred to the containers, while

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Written by Professor Harold E. Gray, an expert in greenhouse heating and construction, this book presents in layman's language practical and up-to-date data needed by every greenhouse owner.

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Lovely, solid, golden-leaved variety. Extremely adaptable for a striking border. Retains full golden color from spring to fall. Beautiful for rose bed borders. Should have full sun. Per 100 Per 1000  
Potted liners ..... \$18.00 \$150.00  
Rooted cuttings ..... 10.00 80.00

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Names, locations and types of plants grown by 83 members representing 4,000 acres of the very finest nursery stock. Write to:

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# EU

## **EUONYMUS acuta (4)**

A good prostrate, rapidly spreading plants with smooth, shiny, dark leaves. Foliage is a deep red during the winter.

2 1/4 Pot... \$18.00 per 100

## **EUONYMUS fortunei carrierei (4)**

Semi-prostrate growing shrub having heavily veined leaves of deep glistening green.

2 1/4 Pot... \$18.00 per 100

## **EUONYMUS fortunei coloratus (4)**

Semi-prostrate growth. Foliage is deep green turning to an attractive plum color in the fall.

2 1/4 Pot... \$18.00 per 100

## **EUONYMUS fortunei erecta (4)**

Attractive evergreen upright grower with large glossy green foliage.

2 1/4 Pot... \$18.00 per 100

## **EUONYMUS fortunei radicans**

**Upright (4)** Semi-upright in growth. Excellent for upright specimens.

2 1/4 Pot... \$18.00 per 100

## **EUONYMUS japonicus alba ma (5)**

Attractive leaves with narrow margins which gives a silver-like green cast.

2 1/4 Pot... \$18.00 per 100

## **EUONYMUS japonicus: Gold**

**Euonymus (5)** Excellent compact shrub having gold leaves with a dark green margin.

2 1/4 Pot... \$18.00 per 100

## **EUONYMUS japonicus grandifolius**

Rich looking evergreen shrub with very large leaves.

2 1/4 Pot... \$15.00 per 100

## **EUONYMUS japonicus microphyllus (5)**

Very attractive dwarf growing shrub with small green leaves.

2 1/4 Pot... \$18.00 per 100

## **EUONYMUS patens Newport**

Compact grower with well arranged foliage.

2 1/4 Pot... \$18.00 per 100



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FREE copy of the MN general catalog for 1957  
Packed with valuable information.

**R/N liners from the  
EARN MORE MONEY!**

**ONYMUS!**

**EUONYMUS radicans argentia**

**variegata (4)** Low growing shrubs with variegated leaves. Excellent for ground cover.

2 1/4 Pot... \$18.00 per 100

**EUONYMUS patens sieboldianus (4)**

Very attractive compact growing shrubs with large leaves. Produces colorful pink berries.

2 1/4 Pot... \$18.00 per 100

See pages 39 and 42 of your MN general catalog for complete euonymus descriptions. Number following plant name refers to minimum temperature guide, page 40.

**ORDER A GOOD SUPPLY OF  
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**MONROVIA NURSERY Co.**

P.O. BOX Q, AZUSA, CALIFORNIA



## NORTHERN - GROWN STOCK

### 3-Yr. Seedlings

Colorado Blue Spruce	Per 100	Per 1000
6 to 8 ins.	\$ 5.00	\$ 45.00
4 to 6 ins.	4.50	40.00
White Spruce		
6 to 10 ins.	4.50	40.00
4 to 6 ins.	4.00	35.00
Norway Spruce		
8 to 10 ins.	4.50	40.00
4 to 8 ins.	4.00	35.00
American Arborvitae		
4 to 6 ins.	4.00	35.00
Austrian Pine		
8 to 10 ins.	5.00	45.00
4 to 8 ins.	4.50	35.00
Ponderosa Pine		
8 to 10 ins.	3.50	30.00
Douglas Fir		
6 to 10 ins.	5.00	45.00
4 to 6 ins.	4.00	35.00
Balsam Fir		
4 to 6 ins.	4.00	35.00
Mugho Pine, Dwarf Tyrolean, sheared, 4 ins.	5.00	45.00
Scotch Pine		
8 to 10 ins.	4.00	35.00

### 2-Yr. Seedlings

Colorado Blue Spruce		
2 to 4 ins.	3.00	25.00
Mugho Pine, Dwarf Tyrolean		
1 1/2 to 2 ins.	3.00	25.00
Scotch Pine, Blga		
2 to 4 ins.	2.50	20.00
Ponderosa Pine		
2 to 4 ins.	2.50	20.00
Austrian Pine		
2 to 4 ins.	3.00	25.00
Norway Spruce		
2 to 4 ins.	3.00	25.00
American Arborvitae		
2 to 4 ins.	3.00	20.00
Douglas Fir, Snowy Mountain		
2 to 4 ins.	3.00	25.00

### Transplants

American Arborvitae, 5-yr.		
12 to 18 ins.	18.00	150.00
10 to 12 ins.	15.00	120.00
6 to 10 ins.	12.00	80.00

All stock 500 at 1000 rate.

**J.R. PALMER & SON**  
Blackduck, Minn.

## PINE SEEDLINGS

ARE A WISE INVESTMENT

Scotch Pine	Per 100	Per 1000
(2-0), 5 to 8 ins.	\$6.00	\$32.50

Austrian Pine		
(2-0), 4 to 7 ins.	6.00	32.50

Guaranteed Planting by  
Experienced Crews.

Write for free price list and  
planting guide.

**SMITH'S FOREST TREE NURSERY**  
Box 215 Magnolia, O.

## ORNAMENTALS TREES SHRUBS EVERGREENS

Wholesale growers of a  
general assortment for  
the best landscape plantings.

**BRYANT'S NURSERIES**  
Princeton, Illinois

other cuttings are planted directly into the final container.

The canned stock is fed at 10 to 15-day intervals with liquid fertilizer. Six different basic soil mixtures are used for various plants. Soil is mixed in large quantities and stored in bins for use. Mr. Lee discussed the mechanized production line system in loading the cans and potting. He mentioned that a canning crew of 10 persons is able to plant 10,000 to 12,000 containers per day. At present, 2-gallon size containers are planted by hand. Production of a finished plant requires pruning, and Mr. Lee mentioned that some material is pruned 10 times in the developing season. In closing, Mr. Lee mentioned that the firm has a full-time research director in charge of nursery production and that the firm delivers nursery stock up to 150 miles without charge.

### Virginia Methods

A. J. Lancaster, Jr., Coleman Nursery Co., Portsmouth, Va., reported on "Container Culture in Maritime Zone 8 and Its Significance to More Northern Latitudes." Mr. Lancaster reported that 90 per cent of his firm's stock is now grown in containers. Container growing has been used for eight years. Plants, like human beings, need to be fed and protected as they grow. The grower must not get too set in his procedure, but be willing to change. One must develop the feeling of producing with confidence.

Mr. Lancaster said that all hollies do well in cans, although there is some difficulty with freezing of *Ilex crenata rotundifolia*, unless good winter protection is given. Cuttings are established in 2 1/4-inch pots and shifted to gallon cans in April. The time of canning is important. Potted cuttings canned in April are of salable size in the fall, while those that are potted up later in the summer usually have to be held over for another season.

### Soil Mixtures

Regarding soil mixtures, Mr. Lancaster suggested that one use the soil mix considered best for his own area. He uses a mixture of 40 per cent soil, 30 per cent peat and 30 per cent sand, which allows good aeration in the can. Ninety per cent of the watering of container stock is done by hand, but there is a slow change to mechanized methods, although most such methods are not considered satisfactory at present. Canned stock is fertilized throughout the summer, and summer care

## EVERGREEN LINERS

Each Each  
Per Per  
100 1000

<b>JUNIPERUS HETZI</b>		
<b>JUNIPERUS PFITZERIANA</b>		
2-yr., flats	\$0.30	\$0.22
2-yr., 2 1/4-in. pots	.35	.28
4-yr., XX, 6 to 9 ins., beds	.50	.40
4-yr., XX, 9 to 12 ins., beds	.65	.55
<b>TAXUS OUSPIDATA</b>		
2-yr., flats	.30	.22
2-yr., 2 1/4-in. pots	.35	.28
<b>TAXUS HICKSI</b>		
2-yr., flats	.30	.22
<b>ARBORVITAE, DARK GREEN</b>		
2-yr., 2 1/4-in. pots	.35	.28
4-yr., XX, 9 to 12 ins., beds	.50	.40
4-yr., XX, 12 to 15 ins., beds	.60	.50
<b>ARBORVITAE, PYRAMIDAL</b>		
2-yr., flats	.30	.22
<b>ARBORVITAE, WOODWARD GLOBE</b>		
2-yr., 2 1/4-in. pots	.35	.28
4-yr., XX, 8 to 9 ins., beds	.50	.40
4-yr., XX, 9 to 12 ins., beds	.60	.50
25 at 100 rate; 250 or more at 1000 rate.		

Northern-grown and good quality.  
Order now for spring delivery. No packing charges.



P. O. Box 1747 MILWAUKEE, Wis.

## COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade  
Trees, Roses and Lining-out Stock.

Write for complete list.

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## NORTHERN-GROWN STOCK

Evergreen Liners  
Bleeding Hearts  
Ornamental Shrubs  
Fruit Trees  
French Lilacs  
Philadelphus Minnesota Snowflake  
(Plant Patent No. 538).  
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## LYNWOOD GOLD FORSYTHIA

Recent import from Ireland. Full-flowered; deep golden color. Heavy, outdoor frame-rooted cuttings.  
\$12.00 per 100, \$100.00 per 1000.  
These are very heavy stock ready for direct field planting.  
**BEARDSLEE NURSERY** Perry, O.



## EVERGREENS

Growers of Quality Evergreens  
Lining-out Stock a Specialty  
Write for Trade List

**EVERGREEN NURSERY CO.**  
Established 1864 : STURGEON BAY, WIS.



# SHERMAN'S SHADE TREES

	Per 10	Per 100
<b>ASH, Green</b>		
750 6 to 8 ft. ....	\$12.50	\$115.00
100 8 to 10 ft. ....	22.50	200.00
<b>CRAB APPLE, Eleyi (Red-Flowering)</b>		
400 4 to 5 ft. ....	13.00	120.00
400 5 to 6 ft. ....	16.50	150.00
<b>CRAB APPLE, Flame (White-Flowering)</b>		
200 5 to 6 ft. ....	13.00	120.00
<b>ELM, American White</b>		
500 6 to 8 ft. ....	9.50	90.00
400 1 1/4 to 1 1/2-in. cal. ....	22.50	200.00
1300 1 1/2 to 2-in. cal. ....	32.50	300.00
50 2 to 2 1/2-in. cal. ....	42.50	400.00
<b>ELM, Chinese</b>		
400 5 to 6 ft. ....	6.00	55.00
900 6 to 8 ft. ....	9.00	85.00
<b>HACKBERRY</b>		
100 6 to 8 ft. ....	22.50	200.00
60 1 1/2 to 2-in. cal. ....	40.00	375.00
35 2 to 2 1/2-in. cal. ....	50.00	475.00

	Per 10	Per 100
<b>LOCUST, Thornless Honey</b>		
250 5 to 6 ft. ....	\$17.50	\$150.00
150 6 to 8 ft. ....	25.00	225.00
50 8 to 10 ft. ....	32.50	300.00
<b>MAPLE, Soft or Silver</b>		
150 1 1/2 to 2-in. cal. ....	35.00	325.00
<b>POPLAR, Lombardy (Low-Branched)</b>		
500 5 to 6 ft. ....	4.00	35.00
1000 6 to 8 ft. ....	5.50	50.00
3000 8 to 10 ft. ....	6.50	60.00
250 10 to 12 ft. ....	8.00	75.00
<b>WILLOW, Niobe Weeping (Golden)</b>		
2000 6 to 8 ft. ....	10.00	90.00
1500 8 to 10 ft. ....	15.00	135.00
<b>WILLOW, Wisconsin Weeping (Green)</b>		
250 5 to 6 ft. ....	7.50	70.00
300 6 to 8 ft. ....	10.00	90.00
200 8 to 10 ft. ....	15.00	135.00
75 10 to 12 ft. ....	16.50	150.00
30 1 1/4 to 1 1/2-in. cal. ....	20.00	.....

We grow a fine assortment of flowering shrubs, fruit trees, berry plants, perennials, phlox, vines and liners.  
Long-distance phone number is 40.

## SHERMAN NURSERY CO.

CHARLES CITY, IOWA



### Hardy Northern-Grown Stock at WHOLESALE

### JEWELL NURSERIES, Inc.

Write for Price List.

Box 457, LAKE CITY, MINN.

is important to produce a good plant to sell in the fall.

In developing a container area, Mr. Lancaster said six inches of soil were bulldozed off the area, and the ground was then covered with black plastic, which in turn was covered with sawdust to cut off light. The area should have adequate drainage, and the stock should be given adequate spacing and regular feeding through the season. During the fall and winter, plant containers are set close together for winter protection.

Mr. Lancaster stated that his salesmen are instructed to cut the cans for customers, so that the plants can be easily removed for planting. He showed a series of

color slides, illustrating the canned stock operation and, in closing, said that one should grow the material with confidence and pride.

#### Potting Mixtures

Potting mixtures were discussed by L. L. Baumgartner, Baumlanda Horticultural Research Laboratory, Croton Falls, N. Y. Mr. Baumgartner recommended a mixture of peat and perlite as a potting medium because of its increased water capacity. It also promotes a better balance of root and top.

#### INDIANAPOLIS ELECTION

New officers elected for 1958-59 by the Indianapolis Nursery and Landscape Association in Indiana, are

president, Floyd Bass, Jr., Floyd Bass Nursery, New Augusta; vice-president, Marcus D. Stum, New Augusta; secretary, M. J. Bareither, New Augusta Nursery, New Augusta, and treasurer, Jack Engeldow, Engeldow's Tree & Landscape Service, New Augusta.

#### MICHIGAN GARDEN CLINIC

[Continued from page 20.]

representatives of the Kalamazoo parks department, the lecture programs consisted of four half-hour talks at each session. Subjects covered during the first afternoon and repeated that evening were "Landscape Principles and Design," "Perennial Shrubs and Flowers," "Developing a New Lawn and Care of an Established Lawn"

## KRIEGER'S WHOLESALE NURSERY

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### RED RASPBERRIES

	Per 100	Per 1000
Latham		
T. ....	\$10.00	\$ 80.00
1-yr., No. 1 .....	8.00	65.00
Indian Summer, Durham		
T. ....	10.50	85.00
1-yr., No. 1 .....	8.50	70.00

### BLACK RASPBERRIES

Cumberland, Logan, Morrison, Bristol		
No. 1, tips .....	6.00	45.00
Blackhawk		
No. 1, tips .....	15.00	100.00

### GRAPEVINES

Concord		
2-yr., No. 1 .....	15.00	100.00
Niagara, Catawba, Fredonia		
2-yr., No. 1 .....	16.00	120.00
Seneca, Golden Muscat		
2-yr., No. 1 .....	25.00	.....

### ASPARAGUS

Mary Washington		
3-yr., heavy .....	\$4.50	\$30.00
2-yr., No. 1 .....	3.00	20.00
1-yr., No. 1 .....	2.00	14.00

### RHUBARB

	Per	Per	Per
	10	100	1000
Canada Red....	\$4.00	\$35.00	\$300.00
MacDonald ....	3.50	30.00	250.00

### BLUEBERRIES

Jersey, Rubel, Rancocas			
2-yr., 9 to 12 ins. ....	3.50	32.50	300.00
3-yr., 12 to 18 ins. ....	5.00	47.50	450.00
4-yr., 18 to 24 ins. ....	7.00	67.50	650.00
5-yr., Jersey only,	\$1.00	each.	

### GOOSEBERRIES

Houghton			
3-yr., heavy	3.50	30.00	.....
2-yr., No. 1	2.50	20.00	.....

### HORSERADISH

Cuttings .....	.50	3.00	20.00
Whole roots ..	.90	6.50	45.00

SEND FOR WHOLESALE TRADE LIST

## LINING-OUT STOCK

	Each 100 rate	Each 1000 rate	Each 2500 rate
RED-LEAVED BARBERRY (thunbergi atropurpurea)			
6 to 9 ins., 2-yr., S., light .....	\$0.05/2	\$0.04/2	\$0.04
15 to 18 ins., 2-yr., S. ....	.18	.15	..
1 1/2 to 2 ft., 2-yr., S. ....	.20	.17	.15
COTONEASTER horizontalis, 2 1/4-in. pot .....	.30	.25	..
COTONEASTER divaricata, 8 to 12 ins., 2-yr., T. ....	.28	.25	.22
EUONYMUS alatus, 2-yr., pot .....	.30	.28	.25
SORBUS aucuparia, 4 to 6 ins., 1-yr. ....	.07	.06	..
TAXUS cuspidata, 2-yr., pot .....	.30	.28	.25
TAXUS cuspidata, 2-yr., from plant bands .....	.30	.28	.25
TAXUS cuspidata, 5-yr., T., bare-root .....	1.65	1.35	..
TAXUS cuspidata capitata, 2-yr., pot, C. ....	.30	.28	..
TAXUS cuspidata capitata, 2-yr., bands, C. ....	.30	.28	.25
TAXUS intermedia, Sebian strain, 2-yr., pot .....	.30	.28	..
WEIGELA vaniceki, 2 to 3 ft., 2 to 3 br. ....	.28	.25	.22

TERMS: 2% 10 days; 30 days net; 3% for cash with order.

### THE COTTAGE GARDENS OUR 35th YEAR



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Nick I. W. Kriek — Harold E. Hicks  
2707 W. St. Joseph St. Lansing 17, Mich.  
Just west of city limits on U. S. 27.

and "Selection of Shade Trees for Your Home Grounds." The following topics were discussed at the second day's sessions: "Modern Design in the Landscape," "Lawn Weeds and Their Elimination," "Common Garden Insects Attacking Ornamentals, Flowers and Shrubs," and "Selection of Shade Trees."

Eight 15-minute demonstrations, many given by K. V. L. N. A. members, were performed on the auditorium stage each afternoon and evening, presenting techniques in "Planting, Care and Pruning of Roses"; "Preparing a Good Garden Soil"; "Flowers and Flower Arrangements"; "Pruning Fruit Trees and Small Fruits Such As Raspberries"; "Photograph Work with Flowers in the Garden"; "Pruning and Care of Evergreens"; "Pruning of Shrubs", and "Arrangement of Landscape Materials."

#### Exhibits of Other Groups

The Audubon Society of Kalamazoo and the Michigan Audubon Society entered an exhibit featuring the planting and care of materials for attracting birds to the garden; uses of birdhouses, feeders and feed, and books and literature on birds. Booklets and other literature on roses and rose culture were shown by the local rose society, while the Kalamazoo garden council displayed flower arrangement materials, information on horticultural therapy and literature on its activities. An exhibit of books on gardening and landscaping was prepared by the Kalamazoo public library, and bulletins available on the same subjects were shown by the extension service of Michigan State University. Two displays prepared by faculty members of the university were "Soil Testing Equipment and How It Works," by James Porter, soils department, and "Common Insects Attacking Garden Plants, Flowers and Trees," by Dr. Raymond Janes, entomology department. Several garden equipment dealers also maintained exhibits, as did a plastic greenhouse manufacturer.

#### Data Available

All association members who worked on or exhibited in the event expressed enthusiasm at the results and at the prospect of cooperating in another such project next year. Anyone interested in the planning and organization of a function of this type may obtain further information by writing to Vernon F. Hinz, county agricultural agent, Kalamazoo county building, Kalamazoo, Mich.

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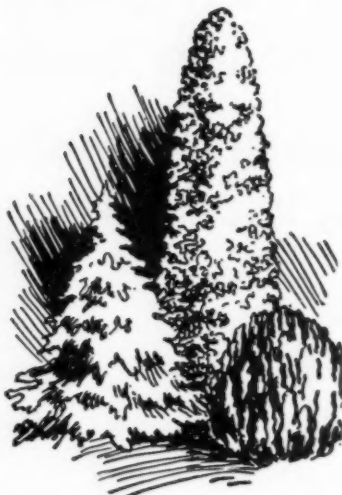
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## Western Pennsylvania Meeting

By Frank Curto

The western region of the Pennsylvania Nurserymen's Association held its 10th regular meeting March 6 at the Hotel Webster Hall, Pittsburgh, Pa. After the meeting was called to order by region chairman W. A. "Bert" Morten, Jr., Coraopolis, reports were given by Louis Wissenbach, Squirrel Hill Nursery, Pittsburgh, on the P. N. A. eastern region meeting held at New York; Dominic Palombo, South Hills Nurseries, Pittsburgh, on the winter meeting of the state association at Harrisburg, and by Ralph Gundlach, on the Pennsylvania state nurserymen's conference sponsored by Pennsylvania State University at University Park.

Max Sestili, Pittsburgh, chairman of the telephone listing committee, gave an extensive report on the region members' cooperative advertisement in the classified pages of the Pittsburgh telephone directory. His thorough exploratory work did much to encourage a number of members to insert their names in the list of nurseries displayed under the seal of the P. N. A.

The first speaker of the afternoon was Lester P. Nichols, plant pathologist, Pennsylvania State University, who spoke on "Diseases of Ornamental Plants." He supplemented his address with colored slides showing the effects of diseases on ornamentals and answered many questions on disease control.

#### Chemical Aids

Fred Jackson, Kelly-Western Seed Div., Utah Cooperative Association, Salt Lake City, then gave a talk on the use of PAX in crab grass control. He informed the members that this product, a pre-emergence herbicide, has been tested widely in the western states and has proved to be highly effective in controlling crab grass.

Advantages of labor-saving devices in landscape practice were discussed by Mr. Krigger, Golf Course Supply Co. He stressed the use of lawn mowers, fertilizer spreaders, aerators, seeding devices and spray machines and quoted statistics to show how



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Mr. Morten, giving a report on the 6-10-4 fertilizer that region members agreed to purchase on a cooperative basis, stated that the fertilizer is now available at the Kapco Division warehouse of the Summers Fertilizer Co., Boston, Pa. John Eisler, Eisler Nurseries, Butler, chairman of the landscape specifications committee, reported success in preliminary talks with landscape architects in the area. He stated that through the efforts of his committee, specifications more favorable to landscape contractors will be incorporated in future landscape contracts. He also reported that additional meetings are planned to clarify certain other aspects of landscape contracts. The meeting was then adjourned for dinner

### Evening Session

At the after-dinner session, Dr. M. Graham Netting, director of the Carnegie museum, Pittsburgh, spoke on the waste and destruction of America's nonrenewable natural resources. He outlined the steps that must be taken for economic use of these resources, particularly of water supplies, and to encourage the use of renewable resources.

The last speaker on the program was the secretary-treasurer of the western region, Frank Curto, Pittsburgh, who presented an illustrated

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*Ilex rotundifolia*, 15 to 18 ins. to 2 to 2½ ft.  
*Ilex opaca howardii*, 2 to 3 ft. to 4 to 5 ft.  
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*Jasminum floridum*, 1½ to 2 ft. to 3 to 4 ft.  
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*Ligustrum lucidum*, 1½ to 2 ft. to 2½ to 3 ft.  
*Ligustrum lucidum repandens*, 1½ to 2 ft. to 2½ to 3 ft.  
*Mahonia japonica bealei*, 12 to 18 ins. to 2 to 2½ ft.  
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talk on new annuals for 1958. He also discussed the use of containers in outdoor gardening as a supplement to ground plantings.

### BLACK SPOT CONTROL TESTS [Continued from page 11]

which retained the leaves until digging time evidenced the greatest accumulation of starch in the canes. This last point would relate particularly to keeping in storage and also to the vitality and bloom production subsequent to planting.

Little or no damage occurred to the foliage from the different fungicides. What harm there was appeared as a slight or shallow burn on the upper surface of some of the older leaves, and it was not thought serious enough to affect the growth. Even the repeated use of the sulphur-containing fungicide (sulphur-copper dust), at a rather high rate did not give the usual summer burn, indicating that the season was cooler and moister than normal.

Additional information not shown in the tabulation is that two of the border rows were sprayed full length each time with Manzate plus Triton spreader at the same rate as used in the plots. September 24, a count was made of one of the border rows after 11 applications were completed. It was found that there was less than one leaflet of black spot per plant for the 590 bushes in the row. Some of the check (untreated) bushes were in adjoining rows and only 52 inches away from the border row. Yet good disease control was accomplished even in that close proximity with the infected bushes, which in the case of the checks averaged about 60 per cent infection.

In a different series of experiments started at another location, a new antibiotic fungicide, Acti-dione PM, was tested with weekly applications made with a Champion knapsack-type sprayer. The first trials were against powdery mildew that occurred on varieties Chatillon, Ideal, Golden Salmon, Eblouisant and Frau Karl Druschki. This was early in the spring at Tyler Municipal Rose Garden, and two or three weekly sprayings with the Acti-dione PM quickly stopped the mildew.

### Variety Response

In order to learn more about rose variety response and compatibility with this spray, a test was begun in the same commercial field with the main fungicide experiments, applying the spray weekly to about six bushes of each of the following varieties: Floradora, C. K. Douglas, World's

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Fair, Paul's Scarlet Climber, American Flagship, Golden Climber, Yellow Condesa de Sastago, White Knight, Pink Frost, Ena Harkness, Betty Uprichard and Climbing Soeur Therese. Powdery mildew was not present and did not develop during the period of the test, but in the repeat applications it was observed that the foliage of most varieties became slightly yellowed. However, the yellowing did not become a burn or affect the growth otherwise. In one case, with the Floradora variety, the weekly spraying gave good control of black spot until the treatments were discontinued; then the bushes in the plot quickly developed black spot. Thus the Acti-dione PM had a short residual action. September 24, the plot mentioned had only about 4 per cent black spot. By digging time, the bushes had become defoliated by the disease.

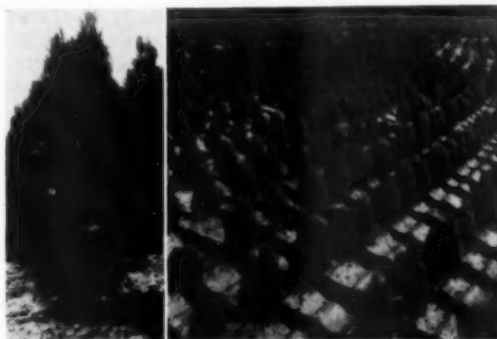
### Second Experiment Told

Another experiment should be described because it was a case of good control of black spot although the test fungicide was not used until a general spread of black spot had occurred despite the use of sulphur-copper dust in the regular field treatment by the grower. This test was with a new unnamed variety of floribunda, and much black spot was evident before June 19 when the demonstration use of Manzate spray was started. Because of the few bushes involved, there was no replication of plots; however, the test was conducted to compare different quantities of the same kind of spray. Manzate spray with the DuPont spreader sticker was used for 19 applications on a weekly basis as far as possible from June 19 to November 20. The concentration of Manzate was at the rate of 0.75 pound to 50 gallons. The bushes were dug and weighed December 10, 1957, and the following record was obtained:

Row No. 1, grown as a check and untreated after June 19, contained 170 bushes, with a weight of 5.36 pounds per 10 bushes. Row No. 2, receiving the Manzate solution at the rate of 120 gallons per acre, contained 160 bushes, with a weight of 7.56 pounds per 10 bushes, a gain in weight of 41 per cent over the check. Rows 3 and 4, receiving the Manzate solution at the rate of 240 gallons per acre, contained 330 bushes, with a weight of 9.80 pounds per 10 plants, a weight gain of 83 per cent over the check.

Root formation, color of canes, amount of foliage retained up until digging and starch content in the canes were more pronounced in this trial, comparing the sprayed and un-

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sprayed bushes, than in the Florida experiment. Even with the late start, the benefit from the spray began to show in about six weeks' time. Row 1, which was the check, had so much black spot and defoliation that late in the season dieback of the canes was extensive. Rows 3 and 4 had little black spot, no dieback by then and were excellent in quality when dug. Row 2 was intermediate between these.

### Doubled Applications

The main thing in the demonstration was the advantage seen in doubling the amount of spray for each week's treatment, going from 120 to 240 gallons per acre when starting with bushes already infected with black spot. To give the 240-gallon rate, the sprayer set for a 120-gallon application per acre was driven a second time over the bushes before the first spray had time to dry. This brings the question of a possible benefit from making two passes over the bushes, instead of one, in order to get the double amount. Anyway, a good difference resulted, as shown by the record, and further trials should reveal whether it was doubling the volume, doubling the chemical itself or going over the bushes twice for one treatment that was the main factor in controlling the black spot and in producing larger and better bushes.

Based on the experiments conducted at Tyler, the suggestions now are to make the applications at 7-day intervals when using sprays for control of black spot. The sprays should be directed upward onto the foliage at a pressure of 200 or 300 pounds, and the volume should be at least 100 gallons per acre for each application. No treatment is necessary for control of black spot if there are long periods of dry weather and if no black spot is evident.

Preventing black spot may not be accomplished completely with present methods, but the degree surpasses anything of the past with outdoor roses in east Texas. The newer fungicides not only are more effective than the older ones, but they are less conspicuous or unsightly on the foliage. The importance of controlling black spot still is upheld by the old statement "black spot is often the cause of poor growth not only during the current season but also during the following season after an attack by the fungus." Also, it is as important in the care of roses in gardens as it is in the growing of roses in commercial fields.

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# California Directors Order Membership Poll on Hawaii Site

By Charles J. Burr

Directors of the California Association of Nurserymen, meeting at Carmel on March 25, hired an assistant to their executive secretary, voted to continue the \$10,800 publicity program under the guidance of a new agency, adopted a budget of \$56,000 and decided to poll the membership on the controversial 1959 Hawaiian convention.

Jack A. Wick, 29, Anderson Nursery, Sacramento, was selected to assist executive secretary Elmer J. Merz by a committee headed by David S. Stump, Armstrong Nurseries, Ontario. Mr. Wick, a native of Long Beach, is a graduate of California State Polytechnic College, San Luis Obispo, is a veteran of the Korean war and will take up his duties June 1, 1958. He is married and has two children. The board approved a budget of \$6,500 for salary and expenses for the 10 months of the fiscal year.

## Reports Publicity Increases

Jack Schneider, Orchard Nursery, Lafayette, as chairman of the publicity committee, reported a 25 per cent increase in the number of column inches devoted to association publicity on the garden pages of the state's newspapers in 1957-58 and a total of 79,072 inches for the year. He revealed that three agencies had applied to the committee to take over the 1958-59 publicity program. The committee chose the Alfred M. Pettler agency, Orinda. The current program of weekly releases — a major article, two shorter features and the gardener's check list — will be continued. Mr. Pettler proposed to amplify the program with further publicity ideas of his own.

The budget adopted by the board is approximately \$10,000 higher than last year's and is the largest in the history of the organization. It is justified by increased income due to a rise in the minimum dues from \$30 to \$40 per year and an increased membership.

Since the 1957 convention in Santa Barbara, where Hawaii was selected as the 1959 convention site, there has been a great deal of discussion among the membership and the officers as to its feasibility. After further discussion at the directors' meeting, it was decided to poll the membership to determine the exact number of regular members interested in making the trip to Hawaii. The

questionnaire, to be sent out soon, will give all the facts of cost and time involved.

## Change Site Choice Method

It was decided at the meeting to change the procedure of selecting convention sites, heretofore voted on by the regular members as the final piece of business at each annual convention. Hereafter, a screening committee will announce its choices on the first day of the convention, and the membership vote will be taken on the last day. A proposal of the San Joaquin chapter to restrict convention sites to California was not acted upon.

The "Plant California" committee, headed by Harold B. Prickett, Prickett's Nursery, Santa Rosa, will start an active campaign on January 1, 1959, to dramatize the need for more plantings in California. It will solicit the aid of public and private organizations in this cam-

paign and will work closely with the publicity committee and the association's advertising agency. The committee was given an appropriation of \$2,000 to defray costs of preliminary publications.

One of the most gratifying reports of the day was made by R. E. Weidner, chairman of the insurance committee. The state compensation insurance fund issued a refund of \$42,000 to the association, amounting to 48.5 per cent of the premiums paid by the members insured by the fund. Mr. Weidner reported that 180 firms were insured by the life insurance program and 442 by the welfare program.

## Urges Safety Meetings

Norman Springer, Bandini Fertilizer Co., Downey, gave the report for the safety committee in the absence of the chairman, Charles Crum, Rosedale's Nurseries, Monrovia. The committee recommended that a silver trophy be awarded annually to the firm with the best safety record and that its employees receive lapel pins. It also recommended that safety bulletins provided by the insurer be sent out with the monthly chapter bulletins and that chapters hold one meeting annually devoted to discussing safety

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precautions. These recommendations were approved by the directors.

The highway committee report, given by Eugene Armstrong, Capital Nursery, Sacramento, in the absence of his brother Charles, revealed that more than \$3,000,000 had been allotted for landscaping the state's highways in the fiscal year 1958-59. The committee's recommendations that the operation of nurseries by schools, universities, botanic gardens and experimental foundations for educational and experimental purposes be encouraged and that operations of nurseries by public agencies to supply materials for street and park planting and for landscaping of public buildings be discouraged were approved.

Donald C. Perry, chairman of the vocational committee, which meets with rehabilitation officials of the state's penal institutions, reported that his committee was divided on the method of placement of parolees. Some members of the committee thought that contact should be made through the executive secretary's office and some thought contact should be made through the efforts of the parole officers. The directors voted for the recommendation of contact through parole officers.

John E. Edwards, John Edwards Nursery, Palo Alto, reported as chairman of the scholarship and education committee. He told of a meeting with state educational officials in which it was agreed to appropriate a fund of \$3,500 to defray the expenses of interviewers who will contact nurserymen throughout the state before July 1, 1958, to determine the consensus on educational requirements of prospective nurserymen. Following this, a study will be made and recommendations released to ornamental horticultural instructors at the high school and junior college level.

James Perry, vice-president and membership chairman, reported a net increase in membership since last September of 30 new members, bringing the total membership of the association to 1,034.

## FIRE RAZES NURSERY

A fire did an estimated \$70,000 worth of damage to L. C. House & Son, rose-packing nursery at Tyler, Tex., the night of March 20. Owner B. L. House told reporters of the Tyler Courier Times that he believed the fire started from a vat of wax in the packing shed. A constant fire was maintained under the vat. The explosion of 30 to 40 sticks of

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dynamite, which were to have been used for clearing land for new rose plantings, added to the damage.

Completely destroyed were the 200x400-foot frame and concrete slab building, 40,000 rosebushes, 200,000 bags for packaging, all wrapping materials and some office machinery. The office immediately in front of the building was not entirely razed, and the equipment in it was saved.

Firemen soaked the garage attached to the nearby House residence and a nearby butane tank in a successful effort to prevent the fire from spreading. However, in spite of their efforts, exploding dynamite and flying debris started four grass fires on adjacent properties. J. M.

#### TYPES OF TREE BARK

[Concluded from page 13]

ordinarily be so loose or shaggy. The grayish-tan bark of a mature swamp oak is coarse and divided into deep fissures that have long, continuous, flat ridges, quite different from that of the white oak and younger swamp white oaks. Young branches of mature swamp white oaks are protected by a loose, almost papery, peeling, reddish-brown to grayish-tan bark. It provides a striking contrast with the rugged, furrowed and ridged bark of the main trunk.

The sugar or hard maple (*Acer saccharum*) presents many varied bark appearances. In the tree's early stages, the bark is relatively smooth and silvery. When the trunk becomes about one foot in diameter (as shown in illustration H), there is a slight pinkish-gray cast to the bark, with an orange tint occasionally appearing between the ridges. A looseness often develops until, eventually, a rugged bark of large sheaths becomes a part of the sugar maple. This can be observed in illustration I. The trunk photographed measured 34 inches in diameter.

The bark of the Norway maple (*Acer platanoides*) is noticeably different from that of the sugar maple and provides a simple means of distinguishing the two trees, whose leaves resemble each other. The diameter of the trunk shown in illustration J is slightly more than 24 inches, and the bark is dark gray to black, with a fine-textured appearance, resembling many small diamond formations.

All trunk diameter measurements were taken at about four and one-half feet above the ground level.

SAFECRACKERS broke into the Cottage Nursery, Vallejo, Calif., recently, looting the safe of the nursery's week-end receipts.

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### INLAND EMPIRE CHAPTER

The camellia show of the Inland Empire chapter, California Association of Nurserymen, was held at the March meeting at Harold's Charcoal Broiler, Fontana. Firms which brought blooms for display included Coolidge Gardens, Pasadena; Descanso Distributors, Chino; Kramer Bros. Nurseries, Upland; Marshall's Camellias, San Gabriel; Monrovia Nursery, Azusa, and Clark Thomas Camellias, San Dimas.

Program Chairman James Hunt, Hunt's Landscape Center, San Bernardino, introduced Robert Boddy, manager, Descanso Distributors, whose suggestions to retail nurseries for increased sales were as follows: Use showmanship to present new camellias; be enthusiastic about new varieties and have them on hand to sell, and give customers information about flower shows and horticultural gardens they may visit. In conclusion, Mr. Boddy said he hoped that the Inland chapter would consider the establishment of a horticultural exhibition garden to include camellias, azaleas, roses, annuals, perennials and pools.

Howard Asper, curator of Huntington Gardens, San Marino, was the second speaker; his talk, "Sasanquas, New Species and Crosses," was illustrated with colored slides. Sasanqua blooms are single-petaled in structure and have a slight fragrance, but are not long-lasting. Though the blooms are not used for cut flowers, they may be admired in profusion when the plants are used as hedges or in espalier fashion along a building or fence. Some varieties are used as ground cover and some in hanging baskets. A few varieties require full sun. One of the slides showed a beautiful garden corner in which several sasanqua plants were used as a background for a small bronze figure and pool.

J. Audry Armstrong, Armstrong Nurseries, Ontario, introduced seven nurserymen from France and Italy who are making a tour of United States nurseries. Two new members introduced by Reid Anderson, membership chairman, are Paul Cushing, Cushing Seed & Garden Supplies, Ontario, and Edward Hansen, Horticultural Center, Upland.

The chapter's February meeting,

held in the Rendezvous Room restaurant, Riverside, featured a shade tree forum. Members participated in the questioning of panel members, Ellis Kendig, Riverside city superintendent of parks, and Past President Maury Peairs, Claremont Nurseries, Claremont, and moderator, Percy Everett, president of the Western chapter, National Shade Tree Conference.

In an address preceding the panel discussion, Mr. Kendig stated that, because of southern California's desert climate, its occasional high winds and other local problems in park and street planting, trees used in limited spaces such as parkways should be moderate in growth, not heavily rooted (to avoid heaving of pavements), not too brittle, suited to the area soil and productive of little leaf debris.

He named four trees especially well suited to narrow parkways—crape myrtle, liquidambar, Italian

cypress and Mexican fan palm. Magnolias and camphor trees were recommended for larger areas. D. C.

### KERN COUNTY CHAPTER

At the February meeting of the Kern County chapter, California Association of Nurserymen, held February 11, after a report on costs by the show committee, the chapter decided to purchase an engraved silver tray or dish suitable for presentation as an award at the Kern County Camellia Society's show.

It was also decided to appoint an advertising committee to carry on a campaign of consumer education, stressing the importance of investigating and comparing stock and prices before ordering materials from out-of-state mail-order agents.

Mrs. Yuri Ono, Sec'y.

### REDWOOD EMPIRE CHAPTER

President Paul Clark, Clark's Nursery, Santa Rosa, opened the March meeting of the Redwood Empire chapter, California Association of Nurserymen, at Walker's, Napa. After dinner, the 27 members and guests heard the chapter secretary, Hugh L. Wallace, Birchlane Farm, San Rafael, report on the recent

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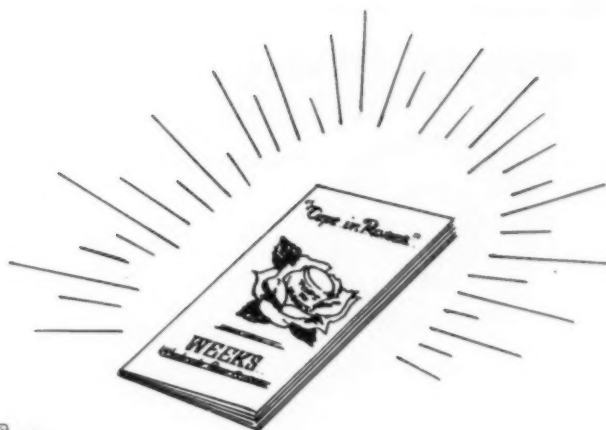
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ornamental horticulture advisory committee meeting held at the City College of San Francisco.

Association members of the Peninsula, Central and Redwood Empire chapters and instructors from Balboa high school and City College participated in the meeting, the purpose of which was to formulate plans to interest qualified students in the nursery industry. Brochures, curriculums, wages and methods of recruiting competent students were discussed.

It was announced that the April meeting would be held jointly with the Central and Peninsula chapters

at Palo Alto, and a suggestion was made that a future meeting be devoted to a complaint session, at which members would be urged to make suggestions for improving meetings and other chapter activities.

The guest speaker, introduced by Program Chairman James Gaddis, Gaddis Nursery, Santa Rosa, was Robert Franklin Biggs, Eugene, Ore., who discussed the advantages of sphagnum moss impregnated with concentrated whale solubles. Samples of such a product, Blue Whale, produced by Acme Peat Products, Ltd., Canada, were distributed to the members. Hugh L. Wallace, Sec'y.

### TRI-COUNTY CHAPTER

Attendance at the February 28 meeting of the Tri-County chapter, California Association of Nurserymen, held at the Miramar hotel, Santa Barbara, rose almost 100 per cent above the average for monthly meetings. The increased attendance, including representatives of every major fertilizer company in the southern counties area, was attributed to the fine program, which featured F. Little, Retail Nurserymen's Cooperative, and a film on Sunshine peat moss, presented by Wilson & George Meyer & Co.

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*Liquidambar styraciflua* (Sweet Gum)  
*Malus* (Flowering Crab Apple), many varieties  
*Phellodendron amurense* (Amur Cork Tree)  
*Populus bolleana* (Bolleana Poplar)  
*Populus canadensis eugenei* (Carolina Poplar)  
*Populus nigra italica* (Lombardy Poplar)  
*Populus simoni* (Simon Chinese Poplar)  
*Prunus* (Flowering Plums) in variety  
*Prunus subhirtella pendula* (Single Weeping Cherries)  
*Pyrus calleryana* (Callery Ornamental Pear)  
*Quercus palustris* (Pin Oak)  
*Robinia pseudoacacia* (Black Locust)  
*Salix babylonica* (Babylon Weeping Willow)  
*Salix blanda* (Wisconsin Weeping Willow)  
*Sophora japonica* (Pagoda Tree)  
*Ulmus carpinifolia Christine Buisman* (Buisman Elm)  
 (Dutch elm disease-resistant)  
*Ulmus glabra* (Scotch Elm)  
*Zelkova serrata* (Japanese Zelkova)

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of the cooperative, quoting percentages of profit and operational costs, and showed the new type of fertilizer bag that the organization is putting into use. His interesting and provocative talk gave rise to many questions from the members and guests present.

Walter S. Barrows, Sec'y.

### CENTINELA DIRECTORS

The March board of directors' meeting of the Centinela chapter of the California Association of Nurserymen was called to order by President George Schmidt, Frontier Nursery, Redondo Beach, at the home of Kenneth Terry, Hawthorne Nursery, Manhattan Beach, March 10. After the chapter treasurer, Keiji Yata, Yata Nursery, Torrance, reported a balance of \$584.20 in the treasury, the question of changing the site of the 1959 state convention from Hawaii to Long Beach was discussed, and the directors approved a motion to support this change. A discussion of the advantages and disadvantages of the proposal to allow host chapters to retain 50 per cent of convention profits resulted in a resolution to oppose this plan.

Announcement was made of the southern chapter presidents' meeting March 13 and the state chapter presidents' meeting March 29. It was moved and passed that President Schmidt's travel and lodging expenses for the latter meeting be paid by the treasury. A proposal to institute an annual dinner meeting for directors and their wives, with expenses to be paid from chapter funds, was discussed and was to be presented to the chapter members at the next general meeting.

Eizo Etow, Etow's 101 Nursery, Redondo Beach, reported for the flower show committee that revisions in the plans for the chapter's exhibit had been made necessary by the change in the space allotted to the display. He stated that Frank Kamada was building a Japanese teahouse to be used in the exhibit, and the board members later visited Mr. Kamada to discuss details of the finishing of the structure.

The next board meeting was set for April 14 at the home of George Schmidt, 23409 Susana street, Redondo Beach, at 7:30 p.m. It was announced that the March 27 general chapter meeting would be held

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at the Wayfarer's restaurant, Lomita, and that the April general meeting would be held at Stern's Barbecue April 24. Bo Packard, Sec'y.

### PLANT CALIFORNIA

The first meeting of the "Plant California" committee was held recently at Merced, Calif., to determine a course for the committee's future action. Preparations were made to enlist the aid of civic organizations and educators in a program of conservation, planting and expansion of horticultural education.

Harold Prickett, Prickett's Nursery, Santa Rosa, is chairman of the committee, which includes Mr. and Mrs. Lyman Merrick, L. B. Merrick Nurseries, Pico; Bert Kallman, Kallman's Garden Nursery, Santa Barbara; Elmer Merz, executive secretary, California Association of Nurserymen; Herman Sandkuhle; Andy Caglia; Ken Hartman; Willis Stribling, president of the C. A. N.; Vernon James, James Rare Plant Nursery, Campbell, and Jack Schneider, Orchard Nursery & Supply, Lafayette, C. A. N. publicity chairman.

### CALIFORNIA ARBORISTS

The March 19 meeting of the California Arborists Association was one of the increasingly popular general discussion meetings and drew an unusually good attendance. There is no formal program at these discussion meetings. The president announces some topic of general interest to open the discussion and acts as moderator, introducing a new topic whenever the subject under discussion seems to be exhausted. Everyone who cares to do so has an opportunity to express himself on every subject that comes up.

At this meeting, the "no burning" edict of the air pollution board and operating costs of heavy equipment received the most consideration. While many members of the group are resigned to the fact that open burning is a thing of the past in most parts of the bay area, there are still some of the members who believe the ban on open burning of agricultural wastes can be lifted and they are trying to get information that will be helpful to them when they present their arguments to the authorities.

The matter of bookkeeping was discussed with regard to the costs of operation of speed sprayers and chippers. The problems of depreciation and interest on investment were gone into in great detail, and it was

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noted that some of the operators of such equipment did not charge enough to cover these cost factors.

There was also much discussion on the matter of licensing. It was noted that some excellent tree men are unable to pass the examinations required for a landscape contractor's license, since they include questions on the making of lawns, building of swimming pools and other work not ordinarily performed by the arborist.

The report of the Arbor day committee indicated that interest in the observance has been increased by the activities of the association, and

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BROAD-LEAVED EVERGREENS:  
Daphne odora, Andromeda, Aucuba,  
Skimmia, R. C., \$100.00 per 1000.  
CONIFERS: Juniper, Cypress, Arborvitae, Yew, R. C., \$100.00 per 1000; plant bands, \$150.00 per 1000.  
French strain English Holly, R. C., in bands, \$20.00 per 100; Variegated Holly, R. C., in bands, \$25.00 per 100.  
Camellias, mixed varieties, R. C., 15c each; Hexe, R. C., 6c each.  
Semidwarf Box, R. C., 5c each.  
English Privet, 3 to 4 ft., 12c each.  
GROUND COVER: English Ivy, Hypericum and Kinnikinnick.

Write for special price list.

## BENEDICT NURSERY CO.

735 N. E. 87th Ave. Portland, Ore.

## TREE PEONIES

For Delivery November, 1958

1 and 2-yr. named grafts in red, white, pink, purple and variegated.  
55c and 90c each per 1000 respectively.  
Price and delivery subject to being unsold, so rush 25% with order or satisfactory credit reference.

## LAKE SAMMAMISH EVERGREEN NURSERY

6127 Highway 99, S. Everett, Wash.

## QUALITY LINERS

Write for our catalog listing over 450 varieties.

## MITSCH NURSERY

Aurora, Ore.

## ROSES

Top-quality, northern California, field-grown, patented and standard bush and tree roses. Write for list and prices.

## ELMER ROSES

6708 N. San Gabriel Blvd.  
SAN GABRIEL, CALIF.

it was decided that these activities be started earlier next year so that a greater number of civic-minded groups can be invited to participate.

The next meeting will be held April 16, when two color films with sound are scheduled to be shown.

W. B. B.

## NEW MEADOWS BROS. FIRM

Meadows Bros., Altadena, Calif., announce that, in order to increase their service to nurserymen, they recently formed a new company, Meadows Bros. Nursery Supplies, owned and operated by Jim Meadows, to carry bamboo fencing, Plantainers, canning machines, plastic pots and reed fencing. The separate firm of Meadows Bros., owned and operated by Dick Meadows, will handle sales of the electric Taylortruck to the nursery and industrial trades. Both companies are located at P. O. Box 277, Altadena.

## OREGON NOTES

Mountain View Nurseries, Inc., Troutdale, has installed a Taylor automatic canning machine. The new machine automatically separates the tubes of Plantainers, fills them with soil, compacts the soil and leaves a depression suitable for a potted liner. The machine works with either 1 or 2-gallon cans and turns out 1,800 cans per hour. The device can be connected with an automatic machine which mixes and shreds the soil.

The Rose City chapter of the Oregon Association of Nurserymen held a dinner meeting at the Mayfair House, Portland, April 14.

The state board of directors of the Oregon Association of Nurserymen met recently at the home of Mr. and Mrs. Wallace Doerfler, F. A. Doerfler & Sons, Salem. Those present included President Joe Klupeniger, Portland; Vice-President Robert Snodgrass, Portland; Treasurer Paul Van Allen, Portland; Executive Secretary Charles H. Potter, Milwaukie and the following chapter representatives: Cascade, Vernon Marshall, Roseburg; Clackamas, Ray Burden, Canby; Columbia River, Hans Nelson and J. Frank Schmidt, Jr., Troutdale; Rose City, George Caldwell and Emmett Shaffer, Portland; Sunset, Wayne Melott, and Willamette, Wayne Weeks, Salem. Also present were W. P. Nuffer, finance chairman, Troutdale, and Frank A. Doerfler. It was a busy evening, devoted chiefly to regular business. The board, after reviewing the financial outlook found it necessary to raise the minimum, or basic, dues. The next meet-

ing of the board will be held at Roseburg, July 8.

Reed's Garden Center, Eugene, held open house March 14 to 16, Reed Vollstedt, owner, reports a large attendance.

The Columbia River, Rose City and Sunset chapters of the Oregon Association of Nurserymen have decided to join in a project to landscape a model home at the Portland home show. Representing the chapters at a recent meeting were Roy Smith, Valley View Nursery, Beaverton, Sunset Chapter; Robert Walker, Holgate Nursery, Rose City chapter, and Don Schmidt, Don Schmidt Nursery, attending for his brother, J. Frank Schmidt, Columbia River chapter. Harley Mays, Mays Landscape Nursery, Vancouver, Wash., represented Landscape Gardeners' Association, Inc. Francis Stafford, Portland landscape architect, will be in charge of the planning.

The March 16 issue of the Sunday Oregonian Home and Garden magazine carried an illustration depicting L. H. McGuire, Tacoma, Wash., regional representative of the American Association of Nurserymen, presenting A. A. N. awards for outstanding landscape work to John O. Merrill, Tucker-Maxon Oral School; E. C. Sammons, president, U. S. National Bank of Portland, and Robert Walker, Holgate Nursery, Portland.

C. H. P.

#### CALIFORNIA NOTES

Germain's, Inc., announces the opening of a new office and warehouse at 775 Commercial street, San Jose. The new facilities, occupying 150,000 square feet in a wholesale district, were built to the firm's own specifications. An open house will be held as soon as arrangements can be made.

The National Audubon Society recently made an urgent request to Congress to take steps to limit further the use of highly toxic chemicals for the control of insects and diseases attacking economic crops. It claims that the use of these materials constitutes a greater danger to humans and to wildlife than is generally recognized.

In the San Francisco bay area, Arbor day, March 7, was more widely celebrated than it had been for many years. Among the activities recorded was the planting of a holly oak at the Stanford children's convalescent home, under the auspices of the California Association of Arborists; the planting of six trees on the grounds of the Benjamin Bubb school, Mountain View; the planting

[Continued on page 109]

## "47 TONS of Woodruff Lawn Products Sold in '57"

states Mr. A. W. Landseadel

"Yes, here at The Secor Landscape Company," Mr. Landseadel points out, "we sold 43 tons of Woodruff's Gro-Sod and 4 tons of Woodruff Lawn Seed. We have carried Woodruff's for 12 years and have developed it into a very fine paying proposition for us—and a goodwill builder for our customers. They're completely sold on Woodruff's and come back year after year . . . knowing that they're saving work and dollars!"



Mr. Landseadel is the owner of The Secor Landscape Company — Toledo, Ohio.

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## Woodruff Offers ALL These Features--

1. PEAK QUALITY
2. PROTECTED SALES AREA
3. SEED "CUSTOM BLENDED" FOR YOUR AREA
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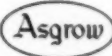
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DIVISION — ASSOCIATED SEED GROWERS, INC.

MILFORD, CONN.

THE TRADEMARK THAT  
MEANS BIG PROFITS FOR YOU!

Branches: Bellerose, N. Y.  
Toledo, Ohio



**DARLING'S**  
*"Rite in the Rain"*  
**WATERPROOF  
TREE AND PLANT LABELS**

"Rite in the Rain" labels are not just another paper label. They are made of tough tagboard and chemically treated to make them waterproof. Ordinary pencil markings do not wash off. These are longer lasting yet low-cost labels. Millions are used every year by nurserymen.

Write for samples and prices.  
**J. L. DARLING COMPANY**  
BROWN'S POINT, TACOMA, WASH.

For list of  
**BOOKS ON TRADE SUBJECTS**  
Write to  
**AMERICAN NURSERYMAN**

### HOW TO PRUNE

**The Pruning Manual**, by E. P. Christopher. A revised, up-to-date work based on *The Pruning Manual*, by L. H. Bailey. Provides the most comprehensive and authoritative information available on pruning all temperate-zone fruits, shade trees and ornamental shrubs. Sections are devoted to forestry, grafting, root-pruning, wound treatment and tools. 320 p., illus. (1954) . . . \$5.00

**Sunset Pruning Book**, by R. L. Hudson. Instructions on pruning rhododendrons, azaleas, roses, evergreen and deciduous trees. Special section on how to espalier. Tools and basic pruning principles explained and illus. 80 p. (1952) . . . \$1.75

Order from

**AMERICAN NURSERYMAN**

343 S. Dearborn St. Chicago 4, Ill.

# CLASSIFIED ADS

Rate: 40 cents per line, each insertion.

Minimum order, \$4.00.

Instructions for the May 15 issue must be received by Friday, April 25.

Forms for June 1 issue will close Friday, May 9.

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**AZALEAS**  
CASH AND CARRY ONLY, NO DELIVERY.  
OVER 80,000  
SIZES RANGING FROM 4 ins. to 8 ft.  
(Not all sizes in all varieties.)  
Lath house and field-grown.  
Quality, priced right.  
(Prices available on request.)

**INDICA**  
ELEGANS PRIDE OF MOBILE  
FORMOSA SOUTHERN CHARM  
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GEO. L. TABER FITTATA FORTUNE  
DUC DE ROHAN JUDGE SOLOMON  
**KURUME**  
SNOW PINK PEARL  
HINODEGIRI SALMON BEAUTY  
CHRISTMAS CHEER HINO-CRIMSON  
ORANGE CORAL DELAWARE  
BELLS VALLEY  
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SWEETHEART FORTUNE  
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TWENTY GRAND  
DELAHVEN GARDENS AND NURSERY  
Route 1 Bayside, Va.  
5 miles east of Norfolk, Va.  
Phone Lowell 2-7231. Nights Madison 5-8180

**AZALEAS**  
Our plants are grown in the open field, single rows, sheared, compact plants.  
100 rate  
6 to 8 ins., B&B.....\$0.75  
8 to 10 ins., B&B.....1.00  
10 to 12 ins., B&B.....1.15  
12 to 15 ins., B&B.....1.40  
15 to 18 ins., B&B.....1.90  
Hinodegiri, in quantity; smaller lots of Snow, Coral Bella, sherrywood, Indica alba and Glenn Dale in larger sizes. 18 to 24 ins., B&B, \$2.50.  
DANNEGER'S HI-WAY NURSERY, INC.  
Box 336 Milford, Del.

**AZALEA LINERS**  
DELIVERY SPRING 1958  
POT-GROWN  
ATLANTA DELAWARE VAL-  
CORAL BELLS LEY WHITE  
FLAME FEDORA  
HERBERT J. T. LOVETT  
INDICA MAGNIFICA PINK PEARL  
ROSEBUD SNOW  
CARMEN

**FLAT-GROWN**  
HINODEGIRI  
\$14.00 per 100, \$125.00 per 1000.  
DELAWARE VALLEY NURSERY  
948 N. Broad St. Elizabeth 3, N. J.

**FLATTED SPRING LINERS**  
Now flattened in large flats of 50 plants each, growing on for May 1 delivery.  
Double Hino, Elizabeth Gable, Fedora, Hino-Crimson, Lorna, Louise Gable, Mary Ann, Mrs. L. C. Fischer, Mrs. Addy Werry, Othello, Purple Splendor, Rosebud, Rose Greeley, Snow, Wil. Vuyk.  
All \$25.00 per 100. Ask for our new list.  
JAMES S. WELLS NURSERY, INC.  
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**AZALEAS**  
Thousands of fine quality, field-grown Azaleas, ready for spring delivery. Dense, bushy, heavily budded plants of all sizes up to 3 ft. 200 varieties of kurume, Glenn Dale, Gable, Kaempfer and many others. Extra nice plants priced right. Write for our trade list or visit our nursery.  
ELDRIDGE'S NURSERY  
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Phone Valley 5-3824

**NEW! NEW!! NEW!!!**  
GABLE'S LATEST AND BEST AZALEA  
STEWARTSTOWNIAN  
Dwarf kurume habit, dark red foliage, deep red flowers, hose-in-hose. Completely hardy.  
A limited quantity of spring liners will be available for May 1 delivery.  
\$50.00 per 100. Ask for our new list.  
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**AZALEAS, 2-YR. BEDDED STOCK**  
100  
Knaphill, hybrida, s.....\$20.00  
Mollis, hybrida, s.....20.00  
**2-YR. BEDDED STOCK**  
Knaphill, some budded.....35.00  
Mollis, some budded.....35.00  
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## SPECIAL OFFER

**AZALEA HINODEGIRI**  
Each, 10 50 100  
18 to 21 ins. ....\$3.75 \$3.50 \$3.25  
21 to 24 ins. ....4.75 4.50 4.25  
24 to 28 ins. ....5.50 5.00 5.75  
Order early. Supply limited.  
**SPRINGFIELD NURSERY**  
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**AZALEAS**  
Heavy, field-grown, sheared, compact plants.  
50 rate  
8 to 10 ins., B&B .....\$0.85  
10 to 12 ins., B&B .....1.15  
12 to 15 ins., B&B .....1.40  
Hinodagiri, Indica alba and Salmon Beauty.  
**AMERICAN FORESTRY SERVICE CO.**  
Lancaster Pike above City Line.  
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**GLENN DALE AZALEAS**  
Rooted cuttings  
Write for list.  
**GLADSGAY GARDENS NURSERY**  
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**GABLE HYBRID AZALEAS**  
Rooted cuttings  
List available.  
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**AZALEAS FOR FORCING**  
AND LANDSCAPE PLANTING  
Write for list of varieties, sizes and prices.  
**LEVICK NURSERY CO.**  
R. D. 3 Bridgeton, N. J.

**AZALEAS, ROOTED CUTTINGS**  
List available on request.  
**GLADSGAY GARDENS NURSERY**  
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Richmond 26, Va.

**KURUMES, GLENN DALES, ETC.**  
Thousands of beautiful Hino-Crimson and other evergreen Azaleas. Dense, bushy, well-budded.  
**THE TANKARD NURSERIES, Exmore, Va.**  
**VA. FIELD-GROWN KURUME AZALEAS.**  
Thousands, in size range 4 to 6, 15 to 18.  
**DAVIS PINE POINT NURSERY**  
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Surplus Stock  
can be easily and quickly turned into  
Cash  
by listing it in the  
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**RED-LEAVED BARBERRY**  
(Atropurpurea) 2-yr. seedlings.  
Per 100 Per 1000  
Lining-out .....\$ 4.50 \$ 40.00  
6 to 9 ins., branched..... 6.00 50.00  
9 to 12 ins., branched..... 9.00 80.00  
12 to 18 ins., branched..... 12.00 110.00  
Special price in large quantities.

**RED-LEAVED BARBERRY**  
(Atropurpurea) 4-yr. transplants.  
Heavy stock. Per 100 Per 1000  
9 to 12 ins. ....\$24.00 \$200.00  
12 to 18 ins. ....28.00 240.00

**GREEN BARBERRY**  
(Thunbergii) 4-yr. transplants.  
Heavy stock. Per 100 Per 1000  
12 to 18 ins. ....\$24.00 \$200.00  
18 to 24 ins. ....28.00 240.00  
Our red Barbary is one of the finest strains in the U. S. A.  
**DANNEGER'S HI-WAY NURSERY, INC.**  
Box 336 Milford, Del.

**RED-LEAVED BARBERRY**  
(Berberis atropurpurea)  
2-yr. seedlings, 1 branch up.  
Per 100 Per 1000  
17,000 6 to 9 ins. ....\$4.50 \$35.00  
33,000 9 to 12 ins. ....5.00 40.00

**PETER BROUWER'S NURSERIES**  
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**RED-LEAVED JAPANESE BARBERRY**  
Nice lining-out stock 100 1000  
8 to 9 ins., 2-yr., s .....\$ 6.00 \$50.00  
9 to 12 ins., 2-yr., s .....7.50 65.00  
12 to 18 ins., 2-yr., s .....12.50 100.00  
68-page wholesale catalog free.  
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**BEGONIAS**  
**DOUBLE CAMELLIA-FLOWERED**  
Selected Belgian-grown bulbs.  
Red, orange, salmon, yellow, scarlet, pink, copper, white, mixed.  
Per 100 Per 1000  
EXHIBITION SIZE .....\$16.00 \$150.00  
2-in. ....14.00 130.00  
1 1/2 to 2-in. ....9.00 80.00  
1 1/2 to 1 1/2-in. ....6.00 50.00  
**DOUBLE FIMBRIATA (Carnation-type)**  
6 separate colors, or mixed.  
Double Camellia, marmorata, Rosebud.  
Top size .....\$15.00 \$140.00  
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Minimum order \$10.00.  
Cash with order. F.o.b. Battle Creek, Mich.  
**VERONA GARDENS, TED GREVERS**  
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**FOR IMMEDIATE ACCEPTANCE**  
Estimated 30,000 to 40,000 special tree-type everbearing Blackberry plants and root cuttings. Even root cuttings have sold for \$1.00 each wholesale. Ground zoned for industry. Make offer promptly. Dig them yourself.

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## STRAWBERRY PLANTS

Illinois-grown.  
Gem Everbearing, \$11.00 per 1000.

**ANNA NURSERY, ANNA, ILL.**

## EVERBEARING STRAWBERRY PLANTS

Hardy, well-rooted, northern-grown plants; irrigated, true to name and free of disease.  
Gem, \$12.00 per 1000; 5000 up, \$11.00.  
Superfection, \$13.00 per 1000; 5000 up, \$12.00.  
Streamliner, \$16.00 per 1000; 5000 up, \$15.00.

Formerly Davis Plant Farm, Hamilton.  
**PLEASANT VIEW NURSERY, Victor, Mont.**

Strawberry plants, double inspected, northern-grown: Dunlap, Blakemore, Giant Robinson, Premier, Armore, 1000, \$7.50; 5000 up, \$7.00 per 1000. Giant Gem, Streamliner, Superfection everbearing, 1000, \$15.00; 5000 up, \$14.00 per 1000. These are young, healthy, moss-packed plants, grown from virus-free stock. Guaranteed to reach you in good growing condition. Iowa Nursery, Farmington, Ia.

**STRAWBERRY PLANTS, WELL-ROOTED**  
Double inspected, irrigated. Per 1000

Dunlap .....\$ 7.50  
Blakemore .....8.00  
Robinson .....9.00  
Armore .....10.00  
Premier .....11.00  
Everbearing, Superfection and Gem...16.00

**DOLLAR NURSERY, BLOOMFIELD, IA.**

**STRAWBERRY and RASPBERRY PLANTS**  
Everbearing Superfection, \$12.00 per 1000; Streamliner, \$15.00. One crop: Robinson, Dorsett, Marshall, Northwest and Lassen. \$12.00 per 1000. Raspberry plants, Latham and Newburg, \$60.00 per 1000. All large, healthy plants, true to name.

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Red Raspberries, black Raspberries, Grapes, Asparagus, Rhubarb, Blueberries, Gooseberries and Horseradish. See our priced ad on page 78.

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### BOXWOOD, B&B

Heavily sheared plants.  
12 to 15 ins. ....\$1.50  
15 to 18 ins. ....2.25  
18 to 24 ins. ....3.25

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\$15.00 per 100, \$125.00 per 1000.

Cash with order.  
Free sample on request.

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3500 sheared specimens.  
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## LARGE-FLOWERING

D-Day (rose-pink) ..... \$0.20  
Jersey's Beauty (pink) ..... .25  
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Bronze Beauty (bronze) ..... .14  
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Little Herman (red and white) ..... .12  
Minimum order, \$5.00.Not less than 5 of a variety.  
Send for our Dahlia list.

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1170 Broadway New York, N. Y.

## FANCY-LEAVED CALADIUMS

The finest of commercial named varieties.  
Over 75 varieties absolutely free from disease, fully upgraded.

	Per 100	Per 1000
No. 2, 1/4 to 1-in.	\$ 7.00	\$ 60.00
No. 2, 1 to 1 1/2-in.	12.00	110.00
No. 1, 1 1/4 to 2 1/4-in.	18.00	160.00
Jumbo, 2 1/4 to 3 1/4-in.	25.00	230.00
Mammoth, 3-in. up	37.00	350.00

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1170 Broadway New York 1, N. Y.

## CAMELIAS

## SARANQUA CAMELIAS

Prices per each for 25 or more of a size and variety.

	2 1/4-in.	2 1/2-in.	3-in.	4-in.
	1-yr.	2-yr.	3-yr.	4-yr.
Agnes O. Solomon	\$.30	...	...	...
Benny	.30	...	...	...
Blanchette	.20	...	...	...
Choi-Guruma	...	...	...	...
Cleopatra	...	...	...	...
Crimson Tide	.30	\$.40	...	...
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Johnson's Dwarf	...	...	...	...
Lavender Queen	.40	...	...	...
Narumi-Gata	.20	.30	...	...
Papaver	...	...	...	...
Pink Lassie	.30	.40	1.00	...
Pink Snow	...	.40	...	...
Reticulata	...	.30	...	...
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Setsuekka	.20	.30	1.00	...
Showa-No-Sakae	.20	.30	...	...
Slenderlee	...	.30	...	...
Totenko	.30	.40	1.00	...
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Our 68-page price list describing above and listing a wide selection of other stock will be sent on request.

THE TINGLE NURSERY CO.  
Pittsville, Md.

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## SURPLUS HARDY GARDEN MUMS

Full clumps, field-grown in sand loam soil.

	Per 100	250 or more
MAJOR CUSHION (pink)	\$.10	\$.09
YELLOW CUSHION	.10	.09
WHITE CUSHION	.10	.09
BRONZE CUSHION	.10	.09
FLAMING CUSHION, red	.10	.09
PICMY GOLD	.10	.09
SALUTE, purple	.10	.09
HARDY ASTER, dwarf lilac	.15	.12

See our Hardy Plant, Phlox and Paney ads in this issue.  
VAN ENGELS  
KALAMAZOO GARDEN NURSERY  
206 Richard Ave. Kalamazoo 33, Mich.  
Phones, FI 5-1190; MO 5-7103.

## CHRYSANTHEMUMS

Hardy field-grown clumps with all the runners intact, \$10.00 per 100, \$90.00 per 1000. Available after April 1. F.O.B. Zeeland, Mich. 50 varieties to choose from in the cushion and also taller growing varieties. Ask for new list.

## WALTERS GARDENS

Route 2 Zeeland, Mich.

## SELECTED HARDY CHRYSANTHEMUMS

Field divisions  
Our divisions are selected from the most vigorous plants wintered over in our fields. These divisions are well-rooted and have been hand-trimmed, ready to plant in the field. In shipment, the roots of the plants are protected with sphagnum moss and the tops with excelsior. Each variety is carefully labeled. Begin shipment first week in May.

## PRICES

100	.....	\$ 5.00
500	.....	22.00
1000	.....	40.00
5000 or more, per 1000	.....	35.00

## CUT AND DECORATIVE

Alabaster, large clear white

Autumn Gold, clustered gold with red undertone

Copelia, large bronze

Delight, golden yellow

Early Crimson, bright crimson

Malinda Brown, excellent lavender-pink

Moonlight, soft creamy yellow

Pathfinder, carnation-flowered yellow

Pink Opal, large peach-pink

Red Coat, brilliant red

## LOW GROWING CUSHIONS

Black Velvet, very dark red

Dahlia, wine-red

Gardenia, ivory-white

Gen. Marshall, variegated red

Grace, clear white Cushion

Lomona, clustered golden-yellow

Lyric, white Daisy. A standout.

McArthur, yellow-orange

Orange Cushion, orange-bronze

Pigmy Gold, golden yellow Button

Pink Cushion, pink

Purple Cushion, striking purple

Santa Claus, brilliant red

Little Eskimo, white Pompon

Minimum 25 of a variety. For additional varieties, send for price list.

## W. S. YOE NURSERIES

Lake St. Madison, O.

## FLORETUM COLORFUL GARDEN MUMS.

Top-grade and new varieties. Bred for early blooming, frost tolerance, winter hardiness.

ROOTED CUTTINGS, pinched, branched, outside hardened. (No potting necessary.)

Ideal for planting out any time until late June. All bloom abundantly at regular time.

Labeled.

5 each, 20 varieties, 100 plants..... \$ 10.00

5 each, 50 varieties, 250 plants..... 25.00

5 each, 100 varieties, 500 plants..... 50.00

5 each, 150 varieties, 750 plants..... 75.00

5 each, 200 varieties, 1000 plants..... 100.00

10 each, 20 varieties, 200 plants..... 14.00

10 each, 50 varieties, 500 plants..... 35.00

10 each, 100 varieties, 1000 plants..... 70.00

10 each, 150 varieties, 1500 plants..... 100.00

25 each, 20 varieties, 500 plants..... 30.00

25 each, 50 varieties, 1250 plants..... 75.00

25 each, 100 varieties, 2500 plants..... 125.00

## PRAIRIE SOUTHWEST FLORETUM

Fall River, Kan.

## GARDEN CHRYSANTHEMUMS

Strong field divisions 10 100

Biretta, brilliant red ..... \$1.00 \$6.00

Cecil Bede, early lavender-pink..... 1.00 6.00

Delight, fine early gold ..... 1.00 6.00

Kathleen Lehman, orange-gold ..... 1.00 6.00

Orchid Helen, fine for pots ..... 1.00 6.00

White Cloud, large early double ..... 1.00 6.00

## LOW GROWING AND CUSHIONS

Apricot Glow, 2-2 1/2 inch apricot ..... 1.00 6.00

Early Gold, fine gold Pom. .... 1.00 6.00

Early Robin, bronze, red center ..... 1.00 6.00

Glacier, large, early white ..... 1.00 6.00

Joybringer, nice salmon-rose ..... 1.00 6.00

Red Gleam, bright crimson ..... 1.25 8.00

Send for list of nearly 200 varieties.

## ENGLERT GARDENS

4652 S. Division Ave. Grand Rapids 5, Mich.

## MODERN MUMS FOR 1958

Our new trade list includes such outstanding recent introductions as Adorable, Amethystine, Golden Fantasy, Prairie Sunshine, White Sails and others. Send for your copy.

## FLEMING'S FLOWER FIELDS

3100 Leighton St. Lincoln 3, Neb.

## CHRYSANTHEMUMS

ESTHER READ CHIFFON DAISIES

Divisions, \$7.00 per 100. F.O.B. Edmonds.

Chrysanthemums, \$5.00 per 100, our choice.

## SUNSET GARDENS

626 5th Ave. Edmonds, Wash.

## GARDEN MUMS, ROOTED CUTTINGS

Send for our trade list

YOU WILL BE GLAD YOU DID.

FARM OF PASCHKE, NORTH EAST, PA.

Best selling variety specialists

## HARDY CHRYSANTHEMUM CUTTINGS

Write for a complete listing of the best varieties for every use.

FRED C. GLOECKNER &amp; CO., INC.

15 East 26th St. New York 10, N. Y.

## HARDY CHRYSANTHEMUMS

SEND FOR NEW LIST.

NAGLE'S NURSERY, DECATUR, MICH.

9,500 Active Nurserymen

are in need of stock.

List your offerings in the

American Nurseryman Classified Section.

## CLEMATIS

## CLEMATIS MONTANA RUBENS

(Pink Anemone Clematis)

A strong, vigorous hardy variety thriving under most adverse conditions. Blooms profusely around Memorial day.

3 to 4 ft., staked, field-grown, br.,

\$100.00 per 100.

C. HOOGENDOORN

Turner Rd. Newport, R. I.

## DOGWOODS

## PINK-FLOWERING DOGWOOD

(Cornus florida rubra)

## AMERICA'S FAVORITE

## FLOWERING TREE.

Each, 10 100 1000

## 3-YEAR

2 to 3 ft., bare-root ..... \$2.00 \$1.75 \$1.50

3 to 4 ft., bare-root ..... 2.50 2.00 1.75

4 to 5 ft., bare-root ..... 3.50 3.00 2.75

5 to 6 ft., bare-root ..... 4.50 4.00 3.75

Budded on transplanted seedlings.

Heavy, fibrous root system.

Sturdy caliper.

Heavily branched.

Properly grown.

Liberal graded.

50 or more at 100 rate.

300 or more at 1000 rate.

NAUGHER'S packing is free when cash,

check or money order accompanies order.

You'll like NAUGHER'S quality!

NAUGHER

NURSERY

Chase, Alabama

## WHITE-FLOWERING DOGWOOD

Nursery-grown transplants.

Heavy caliper, well-branched. Each

3 to 4 ft., bare-root ..... \$1.50

3 to 4 ft., B&amp;B ..... 1.95

4 to 5 ft., bare-root ..... 2.00

4 to 5 ft., B&amp;B ..... 2.25

5 to 6 ft., B&amp;B ..... 3.25

6 to 7 ft., B&amp;B ..... 4.50

7 to 8 ft., B&amp;B ..... 6.00

8 to 9 ft., B&amp;B ..... 8.00

We really have the buds this year.

Supply limited, Phone 395.

WHERRY'S NURSERIES, St. Marys, W. Va.

## PINK DOGWOOD

5000 3 to 5 ft.

Extra heavy, 5 and 6-yr.-old.

## WHITE DOGWOOD

10,000 3 to 18 ft.

## VOYTERSHARK FARM NURSERIES

Corner of Nagsack Ave. and

West Rutland Rd.

Milford, Conn.

Phone TR 4-3498

## 5 AND 6-YR. CORNUS FLORIDA

Heavy branched Each, 10 100

4 to 5 ft., bare-root ..... \$2.50 \$2.00

5 to 6 ft., bare-root ..... 3.50 3.00

6 to 8 ft., bare-root ..... 4.00 3.50

EGYPTIAN NURSERY &amp; LANDSCAPE CO.

Farina, Ill.

## CORNUS FLORIDA 100 1000

1-yr., s., 8 ins. up ..... \$3.00 \$25.00

1-yr., s. (understock) ..... 5.00 45.00

PETER BROUWER'S NURSERIES

24 Lester St. New London, Conn.

## EVERGREENS, Liners

## EVERGREEN GRAFTS

ON JUNIPER, virginiana,

canaerti, keteleeri, glauca

and others.

\$50.00 per 100.

## KRUMMEL NURSERY

Carthage, Mo.

## PINE TREE SEEDLINGS

Per 1000

Scotch Pine, 3-yr., 8 to 12 ins. .... 45.00

Scotch Pine, 3-yr., 12 to 16 ins. .... 45.00

Scotch Pine, 3-yr., 4 to 8 ins. .... 25.00

Austrian Pine, 3-yr., 8 to 12 ins. .... 35.00

Mugho Pine, 3-yr., 8 to 12 ins. .... 40.00

## KISSINGER'S NURSERY

26 Ridge Ave. Homer City, Pa.

## EVERGREEN SEEDLINGS 100 1000

Douglas Fir, 1-0, 3 to 6 ins. .... \$5.00 \$30.00

Douglas Fir, 1-0, 6 to 8 ins. .... 6.00 40.00

Scotch Pine, 1-0, 3 to 6 ins. .... 5.00 30.00

Scotch Pine, 1-1, 3 to 6 ins. .... 10.00 60.00

White Spruce, 2-0, 3 to 6 ins. .... 6.00 40.00

Send post card for our seedling list.

CRITCHFIELD GLASS MTN.

TREE FARM NURSERY

On the Silverado Trail St. Helena, Calif.

## BED-GROWN, BARE-ROOTED LINERS

2-yr., 8 to 10 ins., \$35.00 per 100.

TAXUS, hatfieldi, capitata (top cuttings),

cuspidata, hickel, repandens, Moon's colum-

naris and cuspidata nana.

ILEX, rotundifolia and bullata.

## SPLIT ROCK NURSERIES&lt;/



## POTTED LINERS

2 1/2-in. pots.

	100	1000
Taxus, Adams, 1-yr.	\$18.00	\$170.00
Taxus andersoni, 1-yr.	18.00	175.00
Taxus andersoni, 2-yr.	24.00	230.00
Taxus browni, 1-yr.	18.00	170.00
Taxus browni, 2-yr.	24.00	230.00
Taxus capitata, 1-yr.	18.00	170.00
Taxus capitata, 2-yr.	24.00	230.00
Taxus cuspidata, 1-yr.	17.00	160.00
Taxus cuspidata, 2-yr.	22.00	210.00
Taxus cuspidata, 3-yr., TT.	32.00	300.00
Taxus hicksii, 1-yr.	18.00	170.00
Taxus hicksii, 2-yr.	23.00	220.00

## EVERGREEN SEEDLINGS

Scotch Pine, 2-4, 2-yr.	2.50	12.50
Scotch Pine, 3-6, 2-yr.	4.00	20.00
Scotch Pine, 4-8, 2-yr.	5.00	25.00

TERMS: No charge for packing. 25 per cent with order, balance C.O.D. 250 of a variety at 1000 rate.

HEASLEY BROS. NURSERY  
Box 218, R. D. 1 Greensburg, Pa.

## ROOTED CUTTINGS

	Chinese, compact	Berckmans' Golden	TAXUS
Blue Pfitzer	Holman's	Brown	Cuspidata
Goldtip Pfitzer	Berckmans' Golden	Brown	Cuspidata nana
Sabina	Berckmans' Golden	Brown	Andorra
Sabina Von Ehron	Berckmans' Golden	Brown	Hicksii
Sabina tamariscifolia	Berckmans' Golden	Brown	Ward's media
Andorra	Berckmans' Golden	Brown	BROADLEAFS
Procumbens	Berckmans' Golden	Brown	Ilex glabra
Irish	Berckmans' Golden	Brown	Pyracantha lalandi
Greek	Berckmans' Golden	Brown	
Hetzii glauca	Berckmans' Golden	Brown	
Meyer	Berckmans' Golden	Brown	

Top quality, well rooted. \$12.00 per 100, \$100.00 per 1000.

Shipment April and May.

Cash with order, please.

LEAVENWORTH NURSERIES  
12th and Vilas Leavenworth, Kan.

## QUALITY LINERS

	Per 100
Douglas Fir, 5 to 8 ins., tr.	\$15.00
Mugho Pine, 3 to 4 ins., tr.	15.00
Canadian Hemlock, 4 to 8 ins., tr.	17.50
Colorado Blue Spruce, 4 to 8 ins., tr.	17.50
Viburnum carlesii, 4 to 12 ins., tr.	25.00
Enkianthus camp., 8 to 12 ins., tr.	25.00
French hybrid Liliacs, 4 to 8 ins., tr.	27.50
American Holly, 6 to 10 ins., tr.	27.50
Taxus (best varieties), 6 to 8 ins., tr.	27.50
Rho. hybrids (red seed), 4 to 10 ins.	50.00
Pink Fir. Dogwood, 10 to 15 ins.	75.00
Red Jap. Maple, 1-yr. grafts.	\$5.00

Send for new spring list.

POSSUM HOLLOW NURSERIES  
9909 Henley St. Philadelphia 19, Pa.

## EVERGREEN SEEDLINGS

	100	1000
Colorado Blue Spruce,		
2-0, 2 to 4 ins.	\$ 4.00	\$25.00
3-0, 3 to 6 ins.	6.00	30.00
5-0, 4 to 8 ins.	9.00	45.00
Scotch Pine (non-yellowing)		
2-0, 3 to 6 ins.	5.00	25.00
2-0, 5 to 10 ins.	7.00	35.00
Concolor Fir, 2-0, 3 to 6 ins.	10.00	50.00
Douglas Fir, 2-0, 4 to 6 ins.	7.00	35.00
Douglas Fir, 3-0, 5 to 10 ins.	10.00	
Japanese Fir, 4-0, 6 to 12 ins.	20.00	
Am. Arborvitae, 3-0, 6 to 14 ins.	3.00	40.00

NEUNER'S NURSERY  
368 Eicher Rd. Pittsburgh 2, Pa.

## SURPLUS SALE

## ON

## BERCKMANS' AUREA NANA

Heavy rooted cuttings grown in full sun.

4 to 6 ins., \$6.00 per 100, \$50.00 per 1000.

FLOWERWOOD NURSERY, INC.  
P. O. Box 185 Cairo, Ga.  
Phone 2-4021 or write.

## 2200 EVERGREENS

Spreaders, 5 to 6-in. up to 18 to 24-in. spread. Uprights: Canaerti, burkii, glauca, etc., 2 1/2 to 3 ft., strong; other small ones. All young, leading hardy stock. Due to ill health, would like to sell entire stock to be removed, or will lease the ground. Will sell worth the money.

EVERGREEN GARDENS  
Leonard Witt, Box 56, Roachdale, Ind.

## CANADIAN HEMLOCK, BALSAM FIR, WHITE SPRUCE

6 to 8, 8 to 12, 12 to 20 ins.  
First-quality, collected Evergreens.  
Carefully dug and packed.  
Write for price list.

SUNBURY AIRPORT NURSERY  
P. O. Box 416 Sunbury, Pa.

Phone ATlantic 6-2671.

## SEEDLINGS

	Per 1000
Scotch Pine, 4 to 6 ins.	\$30.00
White Spruce, 4 to 6 ins.	40.00
Colorado Blue Spruce, 4 to 6 ins.	40.00
Norway Spruce, 4 to 6 ins.	35.00
Douglas Fir, 4 to 10 ins.	50.00

Also prices on shrubby trees on request.

SONES NURSERY  
Phone GL 8-2531 Millville, Pa.

## EVERGREEN LINERS AND CUTTINGS

## ROOTED CUTTINGS

Pfitzer Juniper, 1 to 8 ins. 10c

Pfitzer Hetz Juniper, 1 to 8 ins. 10c

## 2 1/2-IN. POTTED

Pfitzer Juniper, 1 to 8 ins. 20c

Pfitzer Hetz Juniper, 1 to 8 ins. 20c

Pyramidal Arborvitae, 1 to 8 ins. 20c

TOWNSEND EVERGREEN NURSERY  
S. Walnut St. Hartford City, Ind.

## BIOTA AUREA NANA

Well rooted cuttings, 3 to 4 ins.

\$80.00 per 1000.

## JOHNSON NURSERY

Baxter, Tenn.

## EVERGREEN LINERS

Rooted cuttings, 100 1000  
Taxus cuspidata, 6 to 8 ins. \$ 3.00 \$ 30.00  
Taxus fastigiata, 6 to 8 ins. 10.00 90.00  
Taxus intermedia, 6 to 8 ins. 11.00 100.00  
Juniperus glauca hetzi, 6 to 8 ins. 10.00 90.00  
HILLCREST GREENHOUSES, Franklin, Pa.

## NANDINA SEEDLINGS

3 to 6 ins. \$ 5.00 per 100, \$ 40.00 per 1000  
12 to 15 ins. 10.00 per 100, 90.00 per 1000  
2 to 3 ft. 15.00 per 100, 140.00 per 1000  
No C.O.D.

## PINKSTON NURSERIES

Parrott, Ga.

## CHERRY LAUREL SEEDLINGS

3 to 6 ins. \$ 5.00 per 100, \$ 40.00 per 1000  
8 to 12 ins. 10.00 per 100, 90.00 per 1000  
12 to 18 ins. 15.00 per 100, 140.00 per 1000  
No C.O.D.

## PINKSTON NURSERIES

Parrott, Ga.

## EVERGREENS

See our Classified ad in this issue under

LINING-OUT STOCK.

T. G. OWEN & SON, INC.  
Columbus, Miss.

## EVERGREENS, B&amp;B

## EVERGREENS, B&amp;B

Euonymus patus 50 at 100 rate. Each, 100

1 1/2 to 2 ft. \$1.10

2 to 2 1/2 ft. 1.35

2 1/2 to 3 ft. 1.50

3 to 4 ft. 1.80

Photinia serrulata 2 to 4 ft. 2.70

4 to 5 ft. 3.00

Abelia grandiflora 2 to 3 ft. 1.50

3 to 4 ft. 2.00

4 to 5 ft. 2.50

Ligustrum lucidum recurvifolium 1 1/2 to 2 ft. 1.50

2 to 2 1/2 ft. 2.00

2 1/2 to 3 ft. 2.25

3 to 3 1/2 ft. 2.70

3 1/2 to 4 ft. 3.35

4 to 5 ft. 3.80

All are heavy field-grown plants. Ask for 1000 lot prices and price list.

GILMORE PLANT & BULB CO., INC.  
Julian, N. C.

## WHITE PINE (PINUS STROBUS)

15 to 18 ins., B&amp;B, 12-in. ball. 25 up 100 up

18 to 24 ins., B&amp;B, 12 to 14-in. ball. \$1.50 1.45

24 to 30 ins., B&amp;B, 12 to 14-in. ball. 1.75 1.70

30 to 36 ins., B&amp;B, 15-in. ball. 2.10 2.05

Choice specimen plants, 6 years old, trimmed 3 times. Fertilized with good solid

soil balls in rot-proof burlap if desired.

Terms: 30 days net, 1/3 with order, 2 per cent 10 days. Deliveries to Mich., Ill., Ind., Pa. and adjoining states.

WADE CHRISTMAS TREE FARMS  
Route 1 Belville, O.

## EVERGREENS, B&amp;B

Each, 10 lots

100 Pyramidal Arborvitae, 2 1/2 to 3 ft. \$2.50

100 Pyramidal Arborvitae, 3 to 4 ft. 3.00

100 Siberian Arborvitae, 15 to 18 ins. 2.00

100 Siberian Arborvitae, 24 to 30 ins. 3.00

50 Globe Arborvitae, 12 to 15 ins. 1.50

150 Retinospora plum. aurea, 3 to 4 ft. 3.00

100 Retinospora. plisera aurea, 2 1/2 to 3 ft. 2.50

Call for these at the nursery.

CORRICK'S FLOWER GARDENS  
Box 185 Mt. Airy, Md.

Phone Mt. Airy, Md., 137J

## EVERGREENS, B&amp;B

We have several blocks of B&amp;B Evergreens, shade trees, shrubs and flowering

Dogwood, which we will sell by the block, in the ground, at REAL BARGAIN PRICES.

All nice, sheared material. To avoid delay write, or phone 395 evenings in advance. Ask for our spring list to the trade.

WHERRY'S NURSERIES, St. Marys, W. Va.

## EVERGREENS, B&amp;B

## PFITZER JUNIPER

Each, 1 to 24 to 25 to 100

18 to 24 ins. \$2.25 \$2.00

24 to 30 ins. 2.50 2.25

## ARBORVITAE

Pyramidal, 3 to 4 ft. 2.25 2.00

Globe, 18 to 24 ins. 2.25 2.00

## KERN NURSERY

600 S. 25th St. New Castle, Ind.

## EVERGREENS

Taxus cuspidata (spreaders)

Taxus cuspidata capitata

Taxus media brownii

Taxus media hickii

All specimens, 3 to 5 1/2 ft.

Cash and carry. Prices on request.

J. PATE NURSERIES  
2209 Post Rd. Hillsgrove, N. I.

## SPRUCE

400 Colorado Blue

100 Kooser's Blue

Size 6 to 18 ft.

BURMAK NURSERY  
95 Hillside Ave. Peekskill, N. Y.

Phone PE 7-4060

## JUNIPERS, PFITZER AND HETZ

5000 field-grown and sheared.

12 to 15 ins., 50c; 15 to 18 ins., 75c; 18 to 24 ins., \$1.00. You dig them. Row-run

\$60.00 per 100.

A. J. BUTTERFIELD, FARMINGTON, MO.

## AMERICAN ARBORVITAE

3000 6 to 15 ft., some sheared, others

natural. Make us an offer on entire block.

CHAMBERLAIN NURSERIES  
Ovid, Mich.

## B&amp;B EVERGREENS, MANY KINDS

SEND FOR NEW LIST.

NAGLE'S NURSERY, DECATUR, MICH.

## EVERGREENS, MISCELLANEOUS

EVERGREENS, BARE-ROOT, B&amp;B

Green Berckmans' Arborvitae, 10 to 12

ins., bare-root \$0.30

Berckmans' Arborvitae, 6 to 8 ins.,

bare-root .20

8 to 10 ins., bare-root .25

10 to 12 ins., bare-root .30

12 to 15 ins., bare-root .40

Baker's Arborvitae, 18 to 24 ins., bare-

root .25

Arborvitae bonita, 18 to 24 ins., B&amp;B .100

8 to 12 ins., bare-root .30

Pfitzer Juniper, heavy branched, 2-yr.-

old, field-grown, B&amp;B 1.25

PEARSALL'S NURSERY  
N. Memorial Parkway Huntsville, Ala.

Phone JE 2-5604

## EVERGREEN LINERS

2-yr. transplants, open bed, good root, fer-

tilized, irrigated. 100 1000

Arborvitae, pyramidalis, 8 to 12 ins. \$30.00 \$275.00

Arborvitae, globosa, 7 to 10 ins. 27.50 250.00

Terms: Cash, free packing.

Hetz Juniper, B&amp;B, sheared: 15 ins., \$1.50;

15 to 18 ins., \$1.75; 18 to 24 ins., \$2.25;

24 to 30 ins., \$2.75; 30 ins., \$3.00.

Special, dig your own at lower price.

SHARP'S EVERGREEN NURSERY  
413 S. Clinton St. Albion, Mich.

Taxus, Ilex, broad-leaved Evergreens, etc.,

in variety. Write for our latest list of liners

and finished stock.

Del-Mar-Va Nurseries, Box 3, Lincoln, Del.

## FRUIT AND NUT TREES

## SURPLUS PEACH IN STORAGE

18 to 24 ins. 3 to 7/16 to 9/16 in.

24 ins. 35c 40c 55c 60c

Halehaven . . . . . 200 280 45

Golden Jubilee . . . . . 125 250 11

Elberta . . . . . 325 450 150

Hennet Hale . . . . . 175 300 175

Diamond King . . . . . 250 350 160

Early Elberta . . . . . 47 50 . . . . .

Gage Elberta . . . . . 24 32 75 20

Champion . . . . . 15 60 40 16

EGYPTIAN NURSERY & LANDSCAPE CO.  
Two miles north of Farina on Route 87  
Farina, Ill.

Budded and grafted Thomas Black Wal-

nut trees, 2-yr., approximately the following:

30 2 to 3 ft., \$1.00 each; 95 3 to 4 ft., \$1.20

each; 110 4 to 5 ft., \$1.55 each; 100 5 to 6

ft., \$2.10 each; 30 6 to 8 ft., \$2.60 each.

Cash with order earns 2 per cent discount;

otherwise 25 per cent cash with order and

balance before shipment. Packed free.

Harwell Nursery, Van Buren, Ark.

## GARDEN ROOTS

## CHIPMAN'S CANADA RED RHUBARB

First-class, freshly cut divisions,

\$28.00 per 100, \$250.00 per 1000.

Inquire for large quantity prices.

Can ship any time.

C. D. WRIGHT, HAMBURG, IA.



## GARDEN ROOTS—Continued

## RHUBARB ROOTS

Excellent stock that will please both you and your customers. Varieties: Victoria or Myrtilla Linneaus.

	25	100	250	1000
2-in. and up, forcing grade	\$5.00	\$17.50	\$37.50	\$125.00
1 1/2 to 2-in. caliper	3.00	10.00	23.75	90.00
1 to 1 1/2-in. caliper	2.50	8.00	18.75	70.00
1/2 to 1-in. caliper	2.25	6.50	15.00	55.00

Immediate or later shipment as desired. Free packing for cash with order.

BUNTINGS' NURSERIES, INC.  
Box 3 Selbyville, Del.

## ASPARAGUS ROOTS

We are the largest growers of Asparagus roots in America. The continued increase in demand indicates complete customer satisfaction.

## MARY WASHINGTON ASPARAGUS

	25	100	250	1000
3-yr., No. 1 grade	\$1.50	\$5.00	\$10.00	\$35.00
2-yr., No. 1 grade	1.25	3.50	7.00	24.00
1-yr., No. 1 grade	1.00	2.50	5.00	16.00

Immediate or later shipment as desired. Free packing for cash with order.

BUNTINGS' NURSERIES, INC.  
Box 3 Selbyville, Del.

## RED RHUBARB

Chipman's Canada Red Rhubarb,  
No. 1 divisions, \$25.00 per 100.  
50 at 100 rate.

VAN DE MOORTELL  
PERENNIAL GARDENS  
7250 18 1/2 Mile Rd. Utica, Mich.

## GRAPEVINES

Strong fibrous root system with heavy tops. Our Grapevines will please the most discriminating type of buyer.

	Per 10	Per 100
Concord, blue		
3-yr., No. 1	\$2.50	\$22.50
2-yr., No. 1	2.00	16.00
1-yr., No. 1	1.75	12.00
Catawba, red		
3-yr., No. 1	2.75	25.00
2-yr., No. 1	2.25	18.00
1-yr., No. 1	1.85	14.00

Immediate or later shipment as desired. Free packing for cash with order.

BUNTINGS' NURSERIES, INC.  
Box 3 Selbyville, Del.

## GROUND COVERS

	Per 100
Ajuga reptans	\$ 5.00
Ajuga, red-leaved	5.00
Vinca minor, variegated	30.00
Pachysandras	10.00
Euonymus vegetus, 2-yr.	30.00
Euonymus vegetus, 3-yr.	40.00
Euonymus coloratus erectus, 2-yr.	30.00
3-yr.	40.00
12 to 15 ins., T.	50.00
15 to 18 ins., T.	60.00
18 to 24 ins., T.	70.00
Euonymus coloratus, 2-yr.	20.00
Euonymus coloratus, 3-yr.	30.00
Euonymus Berryhill, 2-yr.	30.00
Euonymus Berryhill, 12 to 15 ins., T.	40.00
Euonymus Berryhill, 15 to 18 ins., T.	50.00

Terms: Cash with order, please. No packing charges.

HOPPERTON NURSERY  
P. O. Box 65 Naperville, Ill.

## MYRTLE

Excellent plants from field-grown clumps, shipped in peat moss, \$3.50 per 100, \$80.00 per 1000; pot-grown plants, 3-in. peat pots, \$16.50 per 100, \$150.00 per 1000.

PACHYSANDRAS  
1-yr. plants, \$4.50 per 100, \$40.00 per 1000;  
2 1/2-in. pot-grown, \$10.50 per 100, \$95.00 per 1000.

All inquiries answered immediate's.

BIRCH HILL NURSERY  
Lower Cross Road Greenwich, Conn.  
Phone Normandy 1-9212

Hardy Myrtle (Vinca minor), plants with 20 leads or more and good roots, \$5.00 per 100, \$45.00 per 1000. Pachysandras, sand-rooted cuttings, \$40.00 per 1000. English Ivy, sand-rooted cuttings, \$40.00 per 1000. Cash.

Samuel I. Minder, 305 Euclid Ave., Lancaster, Pa.

VINCA MINOR  
\$15.00 per 100; 1000 or more,  
\$40.00 per 1000. Cash with order.  
VERONA GARDENS, TED GREVERS  
Route 5 Battle Creek, Mich.

PACHYSANDRAS  
Strong plants, \$50.00 per 1000.  
2 per cent discount, cash with order.  
H. C. WAUGH  
Box 41 Gallipolis, O.

## MYRTLE

Hardy trailing Myrtle, prepaid, wholesale, bare-rooted prices:

Golden variegated leaf, white, 1 for 50c.  
The following, at least 500 leads (100 plants):

Large-leaved blue	\$7.00
Alpina (reddish purple)	6.00
White	6.00
Mixed, white and blue	5.00
Mixed, Alpina and blue	5.00

"The Blues" (pleasing as a Myrtle can be) 4.00  
Vinca Major, large-leaved blue; Texas strain, 1 for 25c.

GOLDEN ACRE NURSERY  
Shipshewana, Ind.

## HARDY MYRTLE (VINCA MINOR)

Heavy canes, freely dug, 15 to 25 large canes; clumps, \$50.00 per 1000.  
Honeysuckle, Hall's halliana, 3-yr., branched, \$45.00 per 1000.  
English Ivy, large-leaved, Scottish strain; rooted cuttings, \$50.00 per 1000.  
Boston or Engelmann's Ivy, \$50.00 per 1000.  
Euonymus coloratus, 1-yr., rooted cuttings, \$57.00 per 1000.

H. C. WAUGH  
Box 41, Upper River Rd. Gallipolis, O.

## HARDY PLANTS

HARDY PLANTS  
Field-grown, sand loam soil.  
Minimum order 25 of a kind.

	Liners No. 1
ALYSSUM saxatile compactum, golden	\$0.03 \$0.08
AQUILEGIA Scott Elliott's, mixed	.04 .10
AQUILEGIA Crimson Star	.04 .10
ARTEMISIA Silver King	.10 .10
ASCLEPIAS tuberosa	.14 .10
CAMPANULA CARPATICA, blue or white	.04 .09
CAMPANULA (Cup-and-Saucer), mixed	.03 .08
CARNATION Grenadin, mixed or in 5 colors	.04 .08
CATANANCHE, blue Cupids-Dart	.05 .10
COREOPSIS double Sunburst	.03 .08
DAISY Shasta Alaska	.03 .08
DAISY Shasta Diener's double-flowering	.05 .10
DELPHINIUMS, Belladonna, Bellamosum or Lamartine	.04 .08
DIANTHUS barbatus (Sweet William), tall or dwarf	.01 .05
DIANTHUS deltoideus erectus, red or pink	.04 .08
DIANTHUS pleneus, mixed	.04 .08
DIANTHUS GAIA, mixed	.03 .08
DIANTHUS neglectus compactus	.15 .10
Pink Dawn	.15 .10
DIGITALIS Shirley hybrids, mixed	.04 .10
GALLIARDA Dazzler	.03 .08
GYPHOPHILAS, pacifica, pink or oldhamiana	.04 .10
GYPHOPHILA paniculata, single white; grafting size	.04 .10
GEUMS, Lady Stratheden and Mrs. Bradshaw	.15 .10
HIBISCUS Mallow Marvels, mixed	.03 .10
HOLLYHOCK Chater's double-flowering; 5 colors, choice or mixed	.04 .08
HEUCHERA brizoides, pink	.10 .15
IBERIS sempervirens	.04 .12
IRIS kaempferi (Jap.), mixed	.05 .12
IRIS Shikha, small pink	.10 .10
Orchid-type blooms	.10 .10
LATHYRUS, perennial Sweet Peas	.04 .08
LAVANDULA Vera Munstead	.05 .12
LIATRIS September Glory, 2-year	.15 .10
LINUM PERENNE, blue	.03 .08
LUPINE Russell hybrids, mixed	.04 .10
LYCHNIS (Maltese Cross), red	.03 .09
MONARDAS, Croftway Pink and Cambridge Scarlet	.14 .10
PHYSALIS (Chinese Lantern)	.03 .08
PHLOX subulata, see our ad under same in this issue	
PHLOX, tall, No. 1 sold out, No. 2 grade, 5c. 25 kinds	
POPPIES, Oriental Scarlet, Beauty of Livermore, Amber	.05 .10
PYRETHRUM ALL-DOUBLE	
HELEN, new cameo-pink flowers; same as Mt. Shasta Daisies	.20 .35
SEDUM SPECTABILE Brilliant	.12 .10
SEDUMS, rock garden varieties	.04 .08
TRITOMAS, early hybrids	.04 .08
TRITOMA pfitzeri	.12 .10
VERBASCUM phoeniceum	.04 .08
VERONICAS, spicata, tall, or incana, dwarf	.04 .08
VIOLAS, mixed	.01 .05

VAN ENGEL'S  
KALAMAZOO GARDENS NURSERY  
206 Richard Ave. Kalamazoo 33, Mich.  
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## PERENNIALS OUR SPECIALTY

We still have a good selection of quality plants in quantity. Write for quotations and our list.

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Mentor, O.

## HARDY FIELD-GROWN PERENNIALS

Aquilegia, 7 separate colors: Arabia, Asclepias tuberosa, Astilbes, Aubrietias, Campanulas, Carnations, Chives, Dianthus, Digitalis, Gaillardias, Geums, Lavender, Liatris, Russel Lupines, Lythrum, Myosotis, Phlox subulata, 15 varieties; Platycodonas, Primroses, Pyrethrum Daisies, Shastas, Daisy Esther Read, Sedums, 10 varieties; Sweet Williams, Thymes, Tritomas, Trollius, Veronicas, Violas and Violets.

If you haven't received our list, send for it now. 100 or more good varieties.

Shipping now.  
GEORGE FRANK & SON  
Penfield, N. Y.

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TRANSPLANTED, field-grown stock of good size and quality.

	Per 100
AQUILEGIA, Mrs. Scott Elliott's	\$ 7.00
Crimson Star	10.00
CAMPANULAS (Cup-and-Saucer), in blue, pink, white or mixed	7.00
CARNATION Grenadin, in yellow, dark red, scarlet or mixed	7.00
SHASTA DAISY Alar, yearlings; No. 1 grade	7.00
SHASTA DAISY Giant Double	10.00
CUSHION MUMS, field-grown clumps, in red, pink, yellow or bronze	12.00

NORTH POLE NURSERY  
Cornucopia, Wis.

Strong, transplanted, irrigated perennials: Delphinium Galahad, white; 2-yr., \$8.00 per 100. Creeping Phlox, white, red, pink, lilac and blue; field clumps, \$12.00 per 100. Russell Hybrid Lupine, yearlings; No. 1 grade, \$8.00 per 100. Russell Hybrid Lupine, Rita Red, imported seed; yearlings; blooming-size plants, \$15.00 per 100. Viola Blue Perfection, extra strong, pinched plants, \$7.00 per 100. Cash with order. F.O.B. Mercer, Wis. Schultz Perennial Gardens, Box 234, Mercer, Wis.

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Our new list features such choice sorts as Bronze Giant and Gold Ribbon Chrysanthemums, Iberis Alexander's Early, Lythrum Robert, Monarda Granite Pink, Oenothera rosea, Phlox subulata, Scarlet Flame and Intensity. Send for your copy today.

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3100 Leighton Ave. Lincoln 3, Neb.

## SPECIALIZING IN PERENNIALS

We grow over 500,000 strong field-grown plants.

Send for our spring 1958 catalog.

SPRINGBROOK GARDENS, INC.

Dept. A-10 Mentor, O.

## FIELD-GROWN PLANTS

	10	100
Caryopteris Blue Mist, 15 to 18 ins.	\$2.50	\$22.00
Hibiscus Fleming's Hybrids	1.65	14.00
Lythrum Mordens Rose	2.25	20.00
Lythrum Profitor	1.85	17.00

Complete list on request.

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3100 Leighton Ave. Lincoln 3, Neb.

## GYPHOPHILA BRISTOL FAIRY

Strong 2 1/2-in. pot plants, grafted.

Per doz. Pot 100 Per 1000

\$3.50 \$22.00 \$200.00

25 at 100 rate; 250 at 1000 rate.

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R. R. 3, Box 292A Piqua, O.

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Sempervirens, fine 2-yr. plants, \$2.20 per 10, \$20.00 per 100, \$190.00 per 1000.

Snowflake, 2-yr. plants, \$2.50 per 10, \$22.00 per 100, \$210.00 per 1000.

PITZONKA'S PANSY FARM & NURSERY  
Bristol, Pa.

## BLEEDING HEARTS

Dicentra spectabilis, 2 to 3-eye, \$35.00; 4 to 8-eye, \$45.00 per 100. F.O.B. Battle Creek.

VERONA GARDENS  
Route 5 Battle Creek, Mich.

## HARDY FERNS (DORMANT ROOTS)

\$10.00 per 100, \$75.00 per 1000.

Ostrich, Clayton, Lady and Maidenhair.

STRAND NURSERY CO.  
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America's best source for Hardy Plants is

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Mentor, Ohio

Write for Trade List.

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Ask for wholesale offer.

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HELLEBORUS NIGER (Christmas Rose)

3-yr. transplants, blooming size.

Suitable to put up for sales on roadside stands and garden centers.

\$50.00 per 100, \$450.00 per 1000.

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Hardy Hemerocallis.  
Write for wholesale list.  
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## HOLLY, NAMED VARIETIES

All 1-yr. bed-grown liners of exceptional quality. Very heavy root system. Ideal for field planting.  
Aquifolium: J. G. Esson, pyramidalis compacta, Royal Purple, Zimmerman No. 1 and No. 2.

Opaca: Cardinal, Excelsior, M. Farage, Matawan, Mr. Heavy Berry, M. Muller's No. 1 and No. 2, Old Heavy Berry, Rumson and Xanthocarpa.

Royal Purple and OHB, \$90.00 per 100.  
All other varieties, \$60.00 per 100.  
JAMES S. WELLS NURSERY  
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## ILEX

Strong, healthy 2 1/2-in. pot-grown, in sterilized soil. Well established. Satisfaction guaranteed.

	Per 100
Ilex cornuta burfordii	\$12.50
Ilex cornuta femina (3-in. pots)	20.00
Ilex crenata helleri	17.50
Ilex crenata rotundifolia	15.00
Ilex opaca fosteri	20.00

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## ILEX, ROOTED CUTTINGS

From our own northern Ohio stock plants.  
Aquifolium, female \$17.50 per 100  
Aquifolium, male 17.50 per 100  
Crenata hetzi 9.00 per 100

1-YR. BEDDED STOCK  
Aquifolium, female 25.00 per 100  
2-YR. BEDDED STOCK  
Crenata rotundifolia 20.00 per 100

MAHLSTEDE BROS.  
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## CONTAINER STOCK

Ilex, burfordii, crenata convexa and rotundifolia, in 1-gal. containers. Best you can find anywhere, at only 90c per can, in lots of 50 or more.

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## ILEX OPACA

Named varieties, four years in field.  
2 to 3 ft., B&B \$ 5.00  
3 to 4 ft., B&B 7.50  
4 to 5 ft., B&B 10.00

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SUPERIOR NAMED VARIETIES  
WHOLESALE SUPPLIERS  
OF LINING-OUT STOCK.

Write for price list.  
HOLLY HAVEN, INC.  
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## ILEX CRENATA ROTUNDIFOLIA

8 to 10 ins. 12c  
10 to 15 ins. 20c  
2-yr., open laterals. All are green.

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BETTER OREGON HOLLIES  
Skimmia Japonica, general nursery stock.  
ALFRED TEUFEL, WHOLESALE GROWER  
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## HONEYSUCKLES

Lonicera japonica halliana, extra-heavy  
No. 1, 3 and 4-yr., 18 to 24-in. field plants,  
3, 4, to 8 leads, \$40.00 per 1000; lighter grade,  
\$30.00 per 1000; sample 100, \$4.00. Experi-  
enced labor for grading and packing quan-  
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## BALTIC IVY

Hardest Ivy. Fine for wall or ground  
cover. True stock. Well rooted plants, 8 to  
12-in. vines. Per 100 Per 1000  
2-in. pots \$12.50 \$115.00  
2 1/2-in. pots, 1-yr. 20.00 190.00

STRAITFORD GARDENS  
Russell Breece, Mtd. Rt. 9 Delaware, O.

HEDERA HELIX, TRUE ENGLISH IVY  
Bushy, clean stock, pot-grown, well-rooted.  
2 1/2-in. pots (2 plants per pot), \$12.00 per 100.  
Sample sent on request.

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Large-leaved, Boston and climbing rock,  
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## LAWN SEED

Wholesale prices. F.O.B. New York.

	50 lbs.	100 lbs.
Sunny Best Mixture with		
Merlon Blue Grass	\$46.00	\$86.00
Landscape Gardeners' Mixture	28.00	50.00
Cemetery Mixture	31.00	56.00
Shady Best Mixture	27.00	47.00

300 lbs. or more shipped freight paid.  
Write for complete list showing contents  
of above and other formulas and current  
prices for individual grasses.

HERBST BROTHERS  
SEEDSMEN, INC.

678 Broadway New York 12, N. Y.

"PURE KY." BLUE GRASS LAWN SEED  
Every seed known to be grown right here  
in the heart of the blue grass section of Ky.  
Still the best foundation to count on.

100 lbs., \$50.00; 50 lbs., \$25.50; 25 lbs.,  
\$15.00; 10 lbs., \$7.00. All F.O.B. here, sub-  
ject change and unaltd.

WALNUT LAWN FARM  
Lexington, Ky.  
For 116 years.

## CERTIFIED MEYER Z-52 ZOYSIA GRASS

Producers of Meyer Z-52 Zoysia.  
\$35.00 per 1000, 2-in. plugs.  
100 plugs trial order.  
parcel post prepaid, \$5.00.  
50-plus flats available for profitable  
retail display sales.  
MIAMI NURSERY CO.  
Corner of State Rte. 25 and 71  
Tipp City, O.

Lawn Grass, Meyer (Z-52) Zoysia, Emerald  
Zoysia, Zoysia Matrella and Tifton 57 (Tif-  
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green). Wholesale prices, any quantity. Sam-  
ple package, enough to plant 500 sq. ft., \$5.00  
each, prepaid. Specify type desired. Plant-  
ing instructions included. Send check with  
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## FRENCH HYBRID LILACS

Over 200 kinds. All on own roots.  
Fine varieties; vigorous; true to name  
stock. All sizes from 13 ins. to 10 ft. Prices  
start at 50c. Ask for quotations on your  
particular needs.

## LILAC LINERS

	Each	100	1000
Syringa vulgaris (French hybrids)			
18 to 24 ins.	\$0.10	\$10.00	\$0.08
2 to 3 ft.	.12	.10	
Syringa vulgaris (French hybrids, white)			
18 to 24 ins.	\$0.10	\$0.08	
2 to 3 ft.	.14	.12	
Syringa vulgaris (common purple)			
2 to 3 ft.	.10	.08	

PARKER'S PEONY FARM  
Fayetteville, N. Y.

## LINING-OUT STOCK

LINING-OUT LIST  
PRICES SUBJECT TO CHANGE  
WITHOUT NOTICE.

ALL POTTED LINERS ON THIS LIST  
ARE PRICED FOR SHIPMENT IN PAPER  
POTS OR CUPS. THOSE WHO PREFER  
THE ORDINARY METHOD OF PACKING,  
OMITTING THIS ADDED PROTECTION,  
MAY DEDUCT 1c PER PLANT. THE 1000  
RATE APPLIES ON ALL ORDERS.  
THEREFORE, PLEASE ORDER IN MUL-  
TIPLES OF 25 OR MORE EACH, PER 1000

## BIOTA AUREA NANA

2 1/2-in. pots \$0.18  
2 1/2-in. pots .20

## BIOTA AUREA PYRAM. COMPACTA

2 1/2-in. pots .16  
2 1/2-in. pots .18

## BIOTA BAKERI, surplus price

2 1/2-in. pots .12  
2 1/2-in. pots .14

## BIOTA BONITA

2 1/2-in. pots .16  
2 1/2-in. pots .18

## BIOTA EXCELSA

2 1/2-in. pots .18  
2 1/2-in. pots .20

## BIOTA SIBYLI

2 1/2-in. pots .16  
2 1/2-in. pots .18

## CEDRUS DEODARA, surplus price

12x15-in. seedlings, grafting size .15  
BLUE LAWSON CYPRUS

2 1/2-in. pots .16  
2 1/2-in. pots .18

## JUNIPERUS CHIN. PITZERIANA

2 1/2-in. pots .16  
2 1/2-in. pots .18

## JUNIPERUS CHIN. PITZ. NANA

2 1/2-in. pots .20  
2 1/2-in. pots .15

## JUNIPERUS GLAUCA HETZI

2 1/2-in. pots .18  
2 1/2-in. pots .18

## JUNIPERUS HORIZ. PLUMOSA

2 1/2-in. pots .18  
(Continued in next column)

(Continued from previous column)

## JUNIPERUS VIRGINIANA KETLEERI

2 1/2-in. pots .18  
TAXUS MEDIA BREVIFOLIA

2 1/2-in. pots .18  
ABELIA GRANDIFLORA

2 1/2-in. pots .14  
2 1/2-in. pots .16

## BERBERIS JULIANAE

2 1/2-in. pots .20  
2 1/2-in. pots .22 1/2

## BERBERIS SARGENTI

2 1/2-in. pots .16  
BUXUS JAPONICA

2 1/2-in. pots .12  
BUXUS SEMPERVIRENS CRONI

2 1/2-in. pots .20  
2 1/2-in. pots .22 1/2

## CAMELLIA SAS. MAIDEN'S BLUSH

2 1/2-in. pots .12  
2 1/2-in. pots .15

## ELAEAGNUS FRUITLANDI

2 1/2-in. pots .16  
2 1/2-in. pots .17

## EUONYMUS JAPONICUS

2 1/2-in. pots .15  
EUONYMUS PATENS, small leaf

2 1/2-in. pots .18  
EUONYMUS RADICANS ERCTA

2 1/2-in. pots .16  
GARDENIA FORTUNEI, surplus price.

2 1/2-in. pots .10  
3-in. pots .12

## GARDENIA RADICANS

2 1/2-in. pots .16  
3-in. pots .20

## ILEX CORNUTA, seedl. surplus price

2 1/2-in. pots .12  
3-in. pots, extra heavy .20

## ILEX CORNUTA BURFORDI

2 1/2-in. pots .18  
2 1/2-in. pots .17

3-in. pots .25  
ILEX CORNUTA FEMINA

2 1/2-in. pots .18  
2 1/2-in. pots .20

## ILEX CRENATA CONVEXA BULLATA

2 1/2-in. pots .16  
2 1/2-in. pots .17

2 1/2-in. pots .18  
ILEX CRENATA FOSTERI No. 1

2 1/2-in. pots .18  
ILEX CRENATA ROTUNDIFOLIA

2 1/2-in. pots .16  
2 1/2-in. pots .17

3-in. pots .20  
ILEX OPACA EAST PALATKA

2 1/2-in. pots .16  
2 1/2-in. pots .18

## ILEX OPACA FEMINA

2 1/2-in. pots .20  
JASMINUM FLORIDUM

2 1/2-in. pots .15  
LIGUSTRUM IONANDRUM

2 1/2-in. pots .15  
2 1/2-in. pots .17

## LIGUSTRUM JAPONICUM

2 1/2-in. pots .12  
LIGUSTRUM LUCIDUM COMPACTUM

2 1/2-in. pots .15  
2 1/2-in. pots .16

## LIGUSTRUM SINENSIS PENULOM

(Weeping Amur River South Privet)  
2 1/2-in. pots .12

## MAGNOLIA GRANDIFLORA

2 1/2-in. pots .15  
NANDINA DOMESTICA

2 1/2-in. seedlings .05  
2 1/2-in. pots .10

2 1/2-in. pots .12  
3-in. pots .20

## PHOTINIA SERRULATA

2 1/2-in. pots .18  
2 1/2-in. pots .20

## PITOSPORUM TOBIRA

2 1/2-in. pots .16  
2 1/2-in. pots .18

2 1/2-in. pots .16  
PODOCARPUS MACROPHYLLA

2 1/2-in. pots .16  
2 1/2-in. pots .18

3-in. pots .22 1/2  
PYRACANTHA BELLI

2 1/2-in. pots .18  
2 1/2-in. pots .20

## PYRACANTHA YUNNANENSIS

2 1/2-in. pots .16  
TEUCRIUM CHAMAEDRYS

2 1/2-in. pots .10  
VIBURNUM TINUS

2 1/2-in. pots .17  
2 1/2-in. pots .17

## BERBERIS THUN. ATROPURPUREUM

2 1/2-in. pots .15  
2 1/2-in. pots .17

## CORNUS FLORIDA

6x8-in. seedlings .05  
2 1/2-in. pots .12

2 1/2-in. pots .15  
EUONYMUS ALATUS COMPACTUS

8x12-in., TTT, field-grown .30  
12x18-in., TTT, field-grown .45

SPIRAEA ANTHONY WATERER  
2 1/2-in. pots .10

T. G. OWEN & SON, INC.  
Columbus, Miss.

ROOTED CUTTINGS FROM OPEN FRAMES  
EUONYMUS, radicans upright, Sarcolex;  
coloratus, patens, 100, \$7.00; 1000, \$60.00.  
Pfitzer Juniper, 100, \$10.00; 1000, \$90.00.  
PIN OAK SEEDLINGS Per 100 Per 1000  
1-yr., 6 to 12 ins. \$7.50 \$60.00  
EDGAR C. FOX NURS., Humansville, Mo.

## LINING-OUT STOCK—Continued

**LINING-OUT STOCK**  
We specialize in growing the finest in lining-out stock and guarantee satisfaction from these strong, healthy, bed-grown liners. They are all grown in sterilized soil and have excellent fibrous roots.

	Per 100
<b>BUXUS JAPONICA</b>	
4 to 6 ins.	\$ 8.50
6 to 8 ins.	10.00
<b>CLEYERA JAPONICA</b>	
6 to 8 ins.	12.50
8 to 12 ins.	15.00
<b>EUONYMUS PATENS</b>	
8 to 12 ins.	12.50
<b>GARDENIA FORTUNEI</b>	
<b>GARDENIA MYSTERY</b>	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
12 to 18 ins.	15.00
<b>GARDENIA STRICTA NANA</b>	
8 to 12 ins.	12.50
12 to 18 ins.	15.00
<b>ILEX CASSINE ANGUSTIFOLIA</b>	
8 to 10 ins.	15.00
10 to 15 ins.	17.50
<b>ILEX CORNUTA BURFORDI</b>	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
12 to 18 ins.	15.00
<b>ILEX CRENATA CONVEXA</b>	
6 to 8 ins.	12.50
8 to 10 ins.	15.00
10 to 15 ins.	20.00
<b>ILEX CRENATA ROTUNDIFOLIA</b>	
6 to 8 ins.	10.00
8 to 10 ins.	12.50
10 to 15 ins.	15.00
2-yr. heavy liners	20.00
well-rooted cuttings	5.00
<b>ILEX OPACA EAST PALATKA</b>	
<b>ILEX OPACA FEMINA</b>	
6 to 8 ins.	12.50
8 to 12 ins.	15.00
12 to 18 ins.	17.50
<b>ILEX OPACA FOSTERI</b>	
6 to 12 ins.	15.00
<b>LIGUSTRUM LUCIDUM COMPACTUM</b>	
well-rooted cuttings	3.00
\$25.00 per 1000	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
12 to 18 ins.	15.00
<b>NANDINA DOMESTICA</b>	
6 to 8 ins.	10.00
8 to 12 ins.	15.00
<b>OSMANTHUS FORTUNEI</b>	
<b>OSMANTHUS FRAGRANS</b>	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
12 to 18 ins. (fragrans only)	15.00
<b>PHOTINIA GLABRA</b>	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
<b>PITTOSPORUM TOBIRA</b>	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
12 to 18 ins.	15.00
<b>CONIFERS</b>	
<b>CEDRUS DEODARA</b>	
8 to 12 ins.	15.00
12 to 18 ins.	17.50
<b>JUNIPERUS CHINENSIS</b>	
<b>FEMINA (SYLVESTRIS)</b>	
8 to 8 ins.	12.50
8 to 12 ins.	15.00
<b>JUNIPERUS CHINENSIS</b>	
<b>GLAUCA HETZI</b>	
6 to 8 ins.	12.50
8 to 12 ins.	15.00
<b>JUNIPERUS CHINENSIS</b>	
<b>PITZERIANA</b>	
6 to 8 ins.	17.50
8 to 12 ins.	20.00
<b>JUNIPERUS CHINENSIS</b>	
<b>PYRAMIDALIS (SPINY GREEK)</b>	
6 to 8 ins.	12.50
8 to 12 ins.	15.00
<b>JUNIPERUS HORIZONTALIS</b>	
<b>PLUMOSA (ANDORRA)</b>	
8 to 12 ins.	17.50
<b>PODOCARPUS SINENSIS</b>	
6 to 8 ins.	10.00
8 to 12 ins.	15.00

See our separate listing this issue for potted liners. Wholesale catalog sent free upon request.

**COTTAGE HILL NURSERY**  
4000 Japonica Lane Mobile, Ala.

## ROOTED CUTTINGS FROM SAND

	Per 100	Per 1000
25,000 Taxus cuspidata	\$ 9.00	\$ 80.00
10,000 Taxus capitata, leaders	9.00	80.00
3,000 Taxus hicksii	9.00	80.00
3,500 Taxus moonii	9.00	80.00
3,000 Taxus henryi	9.00	80.00
2,000 Juniperus hetzi	9.00	80.00
<b>1-YR. OPEN BEDDED</b>		
15,000 Taxus cuspidata	15.00	140.00
7,000 Taxus capitata, leaders	15.00	140.00
2,000 Taxus hicksii	15.00	140.00
1,000 Taxus moonii	15.00	140.00
<b>2-YR. OPEN BEDDED</b>		
6,000 Taxus capitata, leaders	22.00	200.00

Terms: Please send cash with order and packing free.

**LAURIENTE NURSERIES, INC.**  
464 Main St. Agawam, Mass.

## ROOTED CUTTINGS FROM SAND

	100	1000
Ilex convexa	\$ 9.00	\$ 80.00
Ilex rotundifolia	9.00	80.00
Ilex hetzi	11.00	100.00
Juniperus pfitzeriana	11.00	100.00
Juniperus hetzi	11.00	100.00
Taxus andersoni	11.00	100.00
Taxus Adams capitata	15.00	125.00
Taxus cusp. capitata leaders	15.00	125.00
Taxus browni	11.00	100.00
Taxus brevifolia	15.00	125.00
Taxus cuspidata	10.00	80.00
Taxus hicksii	10.00	80.00
Taxus cuspidata comp.	11.00	100.00
Taxus canadensis stricta	11.00	100.00
Taxus hatfieldi	11.00	100.00
Taxus hunnewelliana	11.00	100.00
Taxus ovata	11.00	100.00
Taxus intermedia	11.00	100.00
Taxus Moon's columnaris	15.00	125.00
Taxus vermeulenii	11.00	100.00
Taxus kelseyi	11.00	100.00
Taxus densiformis	15.00	125.00
Taxus repandens	15.00	125.00
Taxus thayeri	11.00	100.00
Taxus Halloran	15.00	125.00
Taxus henryi	15.00	125.00
Taxus wardi	15.00	125.00

## 1-YEAR OPEN BEDDED

Ilex convexa	\$20.00	\$180.00
Ilex rotundifolia	20.00	180.00
Ilex hetzi	20.00	180.00
Juniperus pfitzeriana	20.00	180.00
Juniperus hetzi	20.00	180.00
Taxus andersoni	17.50	150.00
Taxus cuspidata	17.50	150.00
Taxus browni	17.50	150.00
Taxus hatfieldi	17.50	150.00
Taxus hunnewelliana	17.50	150.00
Taxus intermedia	17.50	150.00
Taxus vermeulenii	17.50	150.00
Taxus hicksii	17.50	150.00
Taxus canadensis stricta	17.50	150.00

## SEEDLINGS AND TRANSPLANTS

Acer pal. atropurpureum	100	1000
1-yr. seedlings	\$15.00	\$125.00
Abies douglasii, 2-yr. seedlings	4.00	35.00
Abies douglasii, 3-yr. seedlings	6.00	50.00
Abies fraseri, 2-yr. seedlings	7.00	50.00
Abies pectinata, 2-yr. seedlings	7.00	60.00
Cornus florida		

1-yr. seedlings, No. 1	5.00	50.00
1-yr. seedlings, No. 2	5.00	40.00
1-yr. seedlings, No. 3	4.00	30.00
2-yr. seedlings, No. 1	12.50	100.00
2-yr. seedlings, No. 2	10.00	90.00
2-yr. transpl. No. 1	15.00	125.00
Kousa, 1-yr. seedlings	11.00	100.00
Euonymus alatus seedlings		
2-yr. transplants	15.00	125.00
alatus comp. seedlings		
2-yr. transplants	15.00	125.00
Ilex opaca, 1-yr. seedlings	6.00	50.00
2-yr. seedlings	11.00	100.00
Taxus canadensis, 4 to 6 ins.		
2-yr. transplants	9.00	80.00
6 to 9 ins., 3-yr. transplants	16.00	150.00
9 to 12 ins., 4-yr. transplants	27.50	250.00
aleboldi, 1-yr. seedlings	10.00	80.00
Picea, excelsa, 2-yr. seedlings	2.50	20.00
excelsa, 3-yr. seedlings	3.50	30.00
pungens, 2-yr. seedlings	3.50	30.00
pungens, 3-yr. seedlings	4.50	40.00
alba, 2-yr. seedlings	3.50	30.00
Pinus austriaca, 2-yr. seedlings	7.00	60.00
austriaca, 3-yr. seedlings	8.00	70.00
densiflora, 2-yr. seedlings	6.00	50.00
mughus, 2-yr. seedlings	5.50	50.00
mughus, 3-yr. seedlings	6.50	60.00
resinosa, 2-yr. seedlings	6.00	50.00
strobilus, 2-yr. seedlings	4.50	40.00
Taxus capitata, 2-yr. seedlings	10.00	90.00
capitata, 3-yr. transplants	15.00	135.00
Viburnum theiferrum		
2-yr. transplants	17.50	150.00
Full list of liners on request. Special prices on large orders.		

VERKADE'S NURSERIES, WAYNE, N. J.

## GOLDEN GOOSE LINERS

For immediate delivery or for reservation. All quotations are for beautiful lining-out stock from 2 1/4-in. pots, grown in open beds under field conditions and ready for field planting.

	Per 100
Ilex cornuta burfordi, 8 to 10 ins.	\$12.00
Ilex cornuta burfordi, 4 to 6 ins.	10.00
Ilex cornuta femina, 8 to 10 ins.	12.00
Ilex opaca femina (American Holly), 8 to 10 ins.	25.00
Ilex opaca femina, 4 to 6 ins.	20.00
Ilex opaca howardii, 8 to 10 ins.	16.00
Ilex crenata rotundifolia, 8 to 10 ins.	12.00
Ilex crenata rotundifolia, 4 to 6 ins.	10.00
Acubia japonica, 4 to 6 ins.	15.00
Buxus harlandi, 4 to 6 ins.	10.00

Our Hollies are grown from either cuttings or grafts, from well-berried specimens, insuring berries for you.

This stock guaranteed 100 per cent satisfactory or return for full refund.

TERMS: Packing without cost. 25 per cent with order, balance C.O.D. Minimum \$5 of a kind, please.

**EVERGREEN NURSERIES**  
Poplar Pike  
Germantown, Tenn.

## GRAFTED STOCK BEDDED OUT IN THE OPEN FOR 1 YEAR

	Per 100
Acer pal. atropurpureum	\$30.00
Carpinus fastigiata	75.00
Cornus florida flore-plena	60.00
Cornus florida rubra	60.00
Cornus florida rubra Proserp.	60.00
Hamamelis mollis	60.00
Magnolia, Waterlily	90.00
Magnolia stellata	90.00
Magnolia stellata rubra	90.00
Magnolia soulangeana nigra	90.00
Retinospora obtusa crippsi	75.00
Viburnum carlesii	65.00
Viburnum burkwoodii	65.00
<b>ROOT GRAFTS</b>	
Malus Almey	20.00
Kwanan and Weeping Cherry	20.00
<b>IMPORT FROM HOLLAND IN THE SPRING</b>	

	Per 100
Fagus riverii, 18 to 24 ins.	\$200.00
Fagus sylv. purp.-pendula, 18 to 24 ins.	250.00

**POT-GROWN GRAFTS MAY SHIPMENT.**  
Understocks are potted up during the early spring, carried over outside in frames during the summer, then grafted during the winter which furnishes the best results for planting.

	Per 100
Abies nobilis glauca	\$100.00
Abies pinsapo glauca	100.00
Acer pal. atropurpureum	75.00
Acer dissectum	75.00
Acer dissectum atropurpureum	75.00
Carpinus betulus fastigiata	60.00
Cedrus atlantica glauca	75.00
Cornus florida rubra	50.00
Cornus florida rubra Proserp.	50.00
Cornus florida pendula	60.00
Cornus florida welchii var.	65.00
Cornus florida flore-plena	60.00
Cornus florida rubra, root grafts	25.00
Cornus kousa chinensis	60.00
Cornus kousa speciosa	60.00
Hamamelis mollis	60.00
Fagus sylvatica riverii	60.00
Fagus sylvatica pendula	60.00
Fagus sylvatica heterophylla	60.00
Fagus sylvatica fastigiata	60.00
Fagus sylvatica tricolor	75.00
Magnolia stellata	75.00
Magnolia stellata rubra	75.00
Magnolia stellata Waterlily	75.00
Magnolia parviflora	75.00
Magnolia yulan	75.00
Magnolia cordata	75.00
Picea pung. gl. hoopii	125.00
Pinus strobus pendula	60.00
Pinus strobus fastigiata	60.00
Pinus parviflora glauca	60.00
Pinus cembra	60.00
Pinus watereri glauca	60.00
Pinus Tanyoshe	60.00
Retinospora obtusa gracilis	50.00
Retinospora obtusa crippsi	50.00
Viburnum carlesii	50.00
Viburnum juddi	50.00
Viburnum burkwoodii	50.00

VERKADE'S NURSERIES, WAYNE, N. J.

## SURPLUS LINERS

Top-quality stock in surplus over our own needs.

	Each	Each
6000 Silver Maple, 18 to 24 ins. S.	30-199	200 up
400 Redbud, 12 to 18 ins. T.	\$0.18	.12
240 Metasequoia, 18 to 24 ins. T.	1.25	1.15
600 Phellodendron amurense, 2 to 3 ft.	.45	.40
400 Korean Barberry, 8 to 15 ins. T.	.15	.12
1000 Mentor Barberry, 6 to 12 ins. T.	.18	.15
1200 Rhamnus frangula, 12 to 24 ins. T.	.19	.15
400 Dwarf Goldplume Cypress, 2-yr. T.	.40	.35
800 Armstrong Juniper, 3-yr. TT.	.55	.50
700 Taxus cuspidata, 12 to 18 ins., 4-yr. TT.	.85	.75

Packing free for net cash. Usual terms to those with established credit.

**THE COLE NURSERY CO.**

Since 1881 Painesville, O.

## POT-GROWN LINING-OUT STOCK

All potted liners listed are 2-yr.-old, grown in pots. Each plant individually wrapped and shipped in heavy cartons. No order accepted for less than 100 plants.

	Per 100	Per 1000
<b>JUNIPERUS CHIN. PFITZERIANA</b>		
2 1/4-in. pots	\$16.00	\$150.00
<b>JUNIPERUS GLAUCA HETZI</b>		
2 1/4-in. pots	16.00	150.00
<b>JUNIPERUS SABINA VON EHREN</b>		
2 1/4-in. pots	16.00	150.00
<b>EUONYMUS JAPONICUS</b>		
2 1/4-in. pots	14.00	125.00
<b>LAVANDULA VERA</b>		
2 1/4-in. pots	12.00	100.00
<b>BIOTA ORIENTALIS PYRAMIDALIS</b>		
2 1/4-in. pots	12.00	100.00
<b>NANDINA DOMESTICA</b>		
2 1/4-in. pots	14.00	125.00
<b>BERBERIS THUN. ATROPURPUREA</b>		
2 1/4-in. pots	12.00	100.00
<b>EMIL R. BRESSER</b> Florist and Nurseryman P. O. Box 973 Muskogee, Okla.		



APRIL 15, 1958

101

## LINING-OUT STOCK

Following is a partial list of the many thousands of our high-quality liners. We have the finest liners that can be produced and invite your trial order.

	Per 100
Felja yellowiana (Pineapple Guava)	\$15.00
Gardenia August Beauty	
Gardenia fortunei	
Gardenia Mystry	
8 to 12 ins.	12.50
12 to 14 ins.	15.00
Hex creata rotundifolia	
6 to 8 ins.	17.50
8 to 12 ins.	20.00
Hex glabra	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
Hex opaca foetida	
6 to 8 ins.	12.50
8 to 12 ins.	17.50
Juniperus chinensis pfitzeriana	
6 to 8 ins.	15.00
8 to 12 ins.	20.00
Juniperus depressa plumosa (Andorra)	
6 to 8 ins.	15.00
8 to 12 ins.	17.50
Juniperus yunnanensis (low Honeysuckle)	
6 to 8 ins.	15.00
8 to 12 ins.	17.50
Nandina domestica	
6 to 8 ins.	15.00
8 to 12 ins.	17.50
12 to 18 ins.	20.00
Osmanthus fragrans (Sweet Olive)	
6 to 8 ins.	15.00
8 to 12 ins.	17.50
Magnolia grandiflora	
6 to 8 ins., transplanted	15.00
8 to 12 ins., transplanted	20.00

We grow the finest container-grown stock in the South and have a much better selection of stock to select from. Write for our wholesale prices of all items.

**BLACKWELL NURSERIES**  
Semmes, Ala.  
WHOLESALE ONLY

## LINING-OUT STOCK

Potted and transplanted stock, ready to plant in cans or field.	
<b>BUXUS SEMPERVIRENS</b>	100 1000
1-yr., 2 1/2-in. pots, 4 to 6 ins.	\$20.00 \$175
2-yr., 2 1/2-in. pots, 4 to 6 ins.	22.50 200
3-yr., 2 1/2-in. pots, 6 to 8 ins.	25.00 225
<b>BUXUS KOREAN</b>	
1-yr., 2-in. pots, 3 to 4 ins.	22.50 200
2-yr., 2-in. pots, 3 to 5 ins.	25.00 225
3-yr., 2 1/2-in. pots, 3 to 6 ins.	27.50 250
<b>HEDERA HELIX (Baltic Ivy)</b>	
2-yr., 2 1/2-in. pots, 10 to 12-in.	15.00 125
<b>JUNIPERUS PFITZERIANA</b>	
2-yr., 2 1/2-in. pots, 8 to 10 ins.	22.50 200
3-yr., 2 1/2-in. pots, 8 to 10 ins.	25.00 225
3-yr., TT, in field, 8 to 10 ins.	37.50 350
<b>MABANIA AQUILUM</b> (Oregon Holly Grape)	
1-yr., 2 1/2-in. pots, 3 to 6 ins.	22.50 200
<b>PICRA EXCELSA (Norway Spruce)</b> grown from seed	
3-yr. pots, 3 to 6 ins., seedling	17.50 150
3-yr. pots, 6 to 10 ins.	22.50 200
<b>PYRACANTHA COCCINEA LALANDI</b> (orange berries)	
1-yr., 2 1/2-in. pots, 10 to 12 ins.	22.50 200
<b>TAXUS CUSPIDATA</b> (spreading Japanese Yew)	
1-yr., 2-in. pots, 6 to 8 ins.	20.00 175
2-yr., 2 1/2-in. pots, 8 to 10 ins.	22.50 200
4-yr., TT, light, 8 to 10 ins.	37.50
4-yr., TT, heavy, 8 to 10 ins.	45.00
<b>TAXUS HICKSI (upright Yew)</b>	
1-yr., 2 1/2-in. pots, 6 to 8 ins.	22.50 200
2-yr., 2 1/2-in. pots, 8 to 10 ins.	25.00 225
<b>VIBURNUM TOMENTOSUM FLICATUM</b> (Japanese Snowball)	
1-yr., 2 1/2-in. pots, 4 to 6 ins.	30.00
1-yr., 2 1/2-in. pots, 5 to 8 ins.	35.00

Send for our complete list.  
**FLORAL GARDENS NURSERY**  
Phon 389  
Eaton, O.

## FIELD-GROWN LINERS

All twice transplanted.	Per 100
Golden Juniper, 9 to 12 ins., XX	\$40.00
Thuja, woodwardii, 9 to 12 ins., XX	40.00
elegantissima, 8 to 10 ins., XX	40.00
Hex, rotundifolia, 9 to 12 ins., XX	45.00
convexa, 8 to 10 ins., XX	35.00
<b>TAXUS, 3 TIMES TRANSPLANTED</b>	
European White Birch (seedlings)	
3 to 4 ft.	30.00
4 to 5 ft.	45.00
5 to 6 ft.	70.00

Cash with order earns free packing.  
**DAMASCUS NURSERIES**  
Damascus, O.

## POTTED LINERS

5,200 Euonymus patens (8-leaf), 2 1/2-in. pots	\$0.10
4,500 Euonymus radicans erectus, 2 1/2-in. pots	.11
7,500 Euonymus radicans (3-yr.), 2 1/2-in. pots	.18
11,000 Spiraea froebelii, 2 1/2-in. pots	.11
<b>2-YR. FIELD-GROWN</b>	
3,750 Euonymus fortunei erectus	.22
3,000 Euonymus radicans erectus	.24
1,200 Euonymus patens	.20
7,000 Euonymus patens (8-leaf)	.22

**BARK NURSERY**  
Onarga, Ill.

## LINING-OUT STOCK

No transplanting risk with this pot-grown stock, with good tops and well-established roots. Ready for field or container planting.

Berberis mentorensis	\$0.18
Cotoneaster pannosa	.22
Euonymus Newport	.18
Euonymus japonicus	.16
Euonymus japonicus microphyllus	.18
Euonymus japonicus Goldspot	.20
Euonymus radicans coloratus	.18
Euonymus radicans, upright (Sarcocoe)	.18
Euonymus radicans minimus	.20
Hedera helix albo-variegata	.18
Jasminum floridum	.16
Ligustrum Vicary Golden	.15
Lonicera purpurea	.15
Lonicera heckrottii	.18
Pyracantha yunnanensis	.20
Pyracantha landi	.16
Pyracantha wyatti	.16
Pyracantha pauciflora	.18
Santolina chamaecyparissus	.15
Teucrium chamaedrys (Germander)	.15
Viburnum rhytidophyllum	.20
Biota orientalis aurea nana	.20
Biota orientalis aurea globosa	.20
Biota orientalis bonita, upright	.18
Biota orientalis excelsa	.18
Juniperus pfitzeriana	.18
Juniperus pfitzeriana glauca Star	.20
Juniperus pfitzeriana plumosa	.20
Juniperus hetzi	.16
Juniper, Andorra	.16
Juniper, Savin	.16
Juniper, Savin Von Ehron	.20
Juniperus scopulorum	.20
Juniperus squamata expansa	.25

Priced per 100. Minimum 25 of one kind.  
No packing charge for cash with order.  
**KENYONS NURSERY, DOVER, OKLA.**

## EVERGREENS

Andorra Juniper, 6 to 8 ins., bare-root	\$0.05
Andorra Juniper, 8 to 10 ins., bands	.14 1/2
Blue Hetz Juniper, 6 to 8 ins., bare-root	.06
Pfitzer Juniper, 6 to 8 ins., bare-root	.08
Pfitzer Juniper, 6 to 8 ins., bands	.14 1/2
Von Ehron Juniper, 6 to 8 ins., bare-root	.06
Spreading Jap. Yew, 6 to 8 ins., bands	.20
<b>DECIDUOUS BARE-ROOT</b>	
Blue Spiraea (Caryopteris), 8 to 12 ins.	.04
Golden Ninebark (Physocarpus), 4 to 6 ins.	.04
Forsythia Lynwood Gold, 6 to 10 ins.	.05
Forsythia Spring Glory, 6 to 10 ins.	.04
Honeysuckle vine, heckrottii or Gold Flame, everblooming, 6 to 10 ins.	.05
Privet, Chinese, Wayside Gardens strain; 8 to 12 ins.	.04
Privet, Regels, 6 to 10 ins.	.04
Euonymus carrieri, 6 to 10 ins.	.04
Euonymus patens Flagpole, small-leaved; 6 to 10 ins.	.04
Euonymus patens Owen, small-leaved; 6 to 10 ins.	.04
Euonymus patens, large-leaved; 8 to 10 ins.	.04
Euonymus patens Newport, medium-leaved; 6 to 10 ins.	.04
Euonymus patens Rosehill, medium-leaved; 6 to 10 ins.	.04
Honeysuckle vine Gold Net, variegated-leaf; 5 to 6 ins.	.06
Pyracantha islandi, 5 to 6 ins.	.05
Pyracantha Kasan, 5 to 6 ins., hardy in Iowa	.08
Less than 300 total order, add 2c per plant.	

**McNINCH GREENHOUSES**  
St. Joseph, Mo.

## LINING-OUT STOCK

Cleyera, C.T., 6 to 8 ins.	\$0.15
Ginkgo biloba, 6 to 8 ins.	.15
Gardenia radicans, 6 to 8 ins.	.12 1/2
Gardenia stricta nana, 6 to 8 ins.	.12 1/2
Red Japanese Flowering Cherry	
12 to 18 ins.	.20
18 to 24 ins.	.30
2 to 3 ft.	.40
Oriental Magnolia, 2-yr., C.T., liners, heavy roots, liberal grade.	
12 to 18 1/2 to 24 1/2 to 3 ins.	
Alba superba	\$0.35 \$0.40 \$0.50
Liliputian	.35 .40 .50
Nigra	.35 .40 .50
Rustica rubra	.35 .40 .50
Soulangeana	.35 .40 .50
Magnolia stellata, 2-yr., C.T., \$35.00 per 100.	

**GRIMES NURSERIES**  
Semmes, Ala.

## HEAVY LINERS FROM FIELD BEDS

Taxus cuspidata, 12 to 15 ins., 4-yr.	Per 100
TTT.	\$65.00
10 to 12 ins., 3-yr., TT.	50.00
8 to 10 ins., 2-yr., T.	40.00
Taxus capitata, 10 to 12 ins., 3-yr., TT.	50.00
8 to 10 ins., 2-yr., T.	40.00
Taxus hicksi, 8 to 10 ins., 2-yr., T.	40.00
Euonymus vegetus, 12 to 15 ins., branched	45.00
Euonymus patens, 12 to 15 ins., bushy	35.00
Ribes alpinum, 10 to 15 ins., bushy	25.00
Rhodotypos kerrioides, 10 to 15 ins., bushy	18.00

**STROHL'S NURSERY**  
5204 St. Joe Road Ft. Wayne, Ind.

## LINING-OUT STOCK

	Each, 100	1000
Acer palmatum atropurpureum (Red Japanese Maple), 12 to 18 ins., strong 2-yr. grafts	\$1.75	\$1.50
Cornus florida rubra (red-flowering Dogwood), 1-yr. strong grafts, 18 to 24 ins.	.75	.70
Cotoneaster divaricata, 2-yr. transplants, branched, 12 to 18 ins.	.30	.25
Exochorda wilsoni (Pearlbush), 2-yr. grafts, 18 to 24 ins., from field rows	.75	.60
Forsythia Spring Glory, 1-yr. transplants, softwood cuttings, 18 to 24 ins., well-branched, mail order size	.18	.15
Juniperus hetzi, 2-yr. transplants	.40	.35
Pachistima canbyi, 2-yr. transplants	.50	.45
Prunus tomentosa (Nanking Cherry), strong 1-yr. seedlings	.10	.07 1/2
Pseudotsuga taxifolia glauca (Blue Douglas Fir), 4-yr. transplants	.40	.35
Taxus capitata, strong 2-yr. selected seedlings, 4 to 6 ins.	.15	.12 1/2
Taxus thayerae, 2-yr. transplants	.45	.40
Viburnum carlesii, 2-yr. seedlings, 4 to 6 ins.	.15	.12 1/2
Viburnum carlesii, 2-yr. seedlings, 6 to 8 ins.	.20	.17 1/2
Viburnum carlesii, 2-yr. seedlings, 8 to 12 ins.	.30	.25
Viburnum tomentosum (true), 1-yr. transplants, softwood cuttings	.25	.20
Viburnum wrightii, 2-yr. grafts, field rows, 10 to 18 ins.	.75	.60

**C. HOOGENDOORN NURSERIES**  
Turner Rd. Newport, R. I.

## FIELD-GROWN LINING-OUT STOCK

	Each, 100	1000	5000 to 15,000
Andorra Juniper, 1-yr., 6 to 12 ins.	\$0.17 1/2	\$0.15	\$0.12 1/2
Ashford Juniper, 1-yr., 6 to 12 ins.	.17 1/2	.15	.12 1/2
Conferta Juniper, 1-yr., 6 to 12 ins.	.17 1/2	.15	.12 1/2
Euonymus japonicus, 1-yr., 6 to 12 ins.	.17 1/2	.15	.12 1/2
Fastigiata Juniper, 1-yr., 6 to 12 ins.	.17 1/2	.15	.12 1/2
Greek Juniper, 1-yr., 6 to 12 ins.	.17 1/2	.15	.12 1/2
Hetz Juniper, 1-yr., 6 to 12 ins.	.20	.17 1/2	.15
Irish Juniper, 1-yr., 6 to 12 ins.	.17 1/2	.15	.12 1/2
Koster Juniper, 1-yr., 6 to 12 ins.	.27 1/2	.25	.22 1/2
Pfitzer Juniper, 1-yr., 6 to 12 ins.	.22 1/2	.20	.17 1/2
Pfitzer Jun., compacta (Owens), 1-yr., 6 to 12 ins.	.22 1/2	.20	.17 1/2
Savin Juniper, 1-yr., 6 to 12 ins.	.17 1/2	.15	.12 1/2
50 or more plants at 100 rate, 200 or more plants at 100 rate, 1000 or more plants at 5000 rate.			
Please order in multiples of 25!			
NAUGHER'S packing is free when cash, check or money order accompanies order.			
You'll like NAUGHER'S quality!			
<b>NAUGHER NURSERY</b> Chase, Alabama			

## LINING-OUT STOCK

Strong, healthy 2 1/2-in., pot-grown, in sterilized soil. Well established. Satisfaction guaranteed.	Per 100
Buxus harlandi	\$15.00
Buxus japonica	15.00
Callistemon lanceolatus (3-in. pots)	17.50
Callistemon rigidus	15.00
Cleyera japonica	15.00
Hex (see our ad under Holly this issue)	
Juniperus chin. glauca hetzi	15.00
Juniperus chin. pfitzeriana	20.00
Ligustrum lucidum comp.	15.00
Magnolia fuscata (3-in. pots)	15.00
Osmanthus delavayi	15.00
Osmanthus fortunei	15.00
Osmanthus fragrans	15.00
Pittosporum tobira	15.00

**COTTAGE HILL NURSERY**  
4000 Japonica Lane Mobile, Ala.

## PIN OAK (QUERCUS PALUSTRIS)

## BUR OAK (QUERCUS MACROCARPA)

1-yr. seedlings, 6 to 12 ins.	\$6.00 per 100, \$55.00 per 1000.
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**R. E. HESSELSCHWERT**  
Rogers, Ark.

## STRONG FIELD-GROWN STOCK

(All these are well-rooted, quality plants.)	
Pfitzer Juniper, 5 to 7 ins., 1-yr.	5c
8 to 10 ins., 1-yr.	10c
8 to 10 ins., 2-yr.	12c
10 to 14 ins., 2-yr.	14c
Hex burfordi, heavily rooted cuttings	3c
Euonymus patens, 6 to 8 ins., 2-yr.	4c
<b>E. F. DuBOISE NURSERY</b> , Huntville, Ala.	

## LINING-OUT STOCK—Continued

LINING-OUT STOCK	
100 Enkianthus campanulatus, Bare-root, each	
6 to 9 ins., heavy	\$.35
500 9 to 12 ins., heavy	.45
300 12 to 15 ins., heavy	.70
400 Ilex crenata convexa, 4 to 6 ins., TT.	.32
400 Leucothoe catesbaei, 2 to 4 ins., TT.	.30
400 Leucothoe catesbaei, 4 to 6 ins., TT.	.40
200 Pyracantha lalandi, 9 to 12 ins., TT.	.60
150 Viburnum tomentosum, 6 to 12, TT.	.30
100 Viburnum tomentosum, 12 to 15, TT.	.35
POTTED LINING-OUT STOCK	
2 1/4-in. peat Jiffy-Pots	
500 Azalea Hino-Crimson	.22
500 Clethra alnifolia rosea	.25
200 Cotoneaster Liaking	.25
600 Ilex crenata convexa	.20
500 Ilex glabra	.22
500 Pyracantha Kansan (new)	.25
500 Pyracantha lalandi	.22
ROOTED CUTTINGS	
1500 Ilex glabra	.08
2000 Taxus hispida, 8 to 9 ins.	.09
1000 Taxus hispida, 6 to 8 ins.	.08
Packing at cost.	
THE CAPE COD NURSERIES	
H. V. Lawrence, Inc.	
Falmouth, Mass.	

LINING-OUT STOCK	
Per 100	4-6X 6-8X 8-10X
Arbutus boottii	\$.19 \$24
Berberis julianae	21
Ilex convexa bullata	15
cornuta	19
cornuta, rooted cuttings	7
crenata	20
retundifolia	20
Juniperus hetzi glauca	19
Leucothoe catesbaei	20
Ligustrum lucidum	15
Osmunda aquifolium	19
Pyracantha cocc. lalandi	24
2 1/2-in. pots	30
Reteola Privet	22
Retinospora juniperoides	24
Taxus cuspidata	19
No packing charges. Write for complete list.	
ESHAM'S NURSERIES	
Millsboro, Del.	

LINING-OUT STOCK	
Per 100	
Juniperus glauca hetzi, 3-yr.	\$25.00
Ilex bullata, 2-yr.	25.00
crenata rotundifolia, 2-yr.	25.00
Taxus hatfieldi, upright, 2-yr.	25.00
cuspidata, 2-yr.	25.00
browni, 2-yr.	25.00
capitata, tip cuttings, 2-yr.	25.00
Taxus cuspidata hyba, heavy, dense	
growers, superior to culture	25.00
FOR NURSERY PICK UP ONLY	
Choice select Boyce Thompson Ilex opaca,	
2 XX, 4-in. Mennepot, \$1.00 each.	
All stock grown in open beds.	
SANDY LYNN NURSERY	
462 Ave. A	
Horsham, Pa.	

LINING-OUT STOCK	
Per 100	Per 1000
American Holly, 6 to 12 ins.	\$8.00
American Holly, 12 to 18 ins.	10.00
Yaupon Holly, 6 to 12 ins.	5.00
Yaupon Holly, 12 to 18 ins.	7.00
Cherry Laurel, 6 to 12 ins.	3.00
Cherry Laurel, 18 to 24 ins.	8.00
Long-leaved Pine, 2-yr.	3.00
Live Oak, 8 to 12 ins.	4.00
Magnolia glauca, 4 to 8 ins.	5.00
Magnolia grand., 2 to 4 ins.	4.00
L. H. BUTTER NURSERY	
Box 205	
Forest Hill, La.	

**MYSTERIOUS "DAWN REDWOOD"**  
Newly discovered "living fossil" conifer, Metasequoia glyptostroboides. Hardy at Painesville, entirely pest-free.

	Each	Each
	25-99	100 up
12 to 18 ins., transplants	\$1.00	\$0.90
1 1/2 to 2 ft., transplants	1.25	1.15
2 to 3 ft., transplants	1.65	1.50
Usual terms. Packing free for cash with order.		
THE COLE NURSERY CO.		
Since 1881		
Painesville, O.		

**LONICERA ZABELI**  
Strong rooted plants from hardwood cuttings.

	Each	100	1000
2500 15 to 18 ins.	\$.09	\$0.09	\$0.08
4000 12 to 15 ins.	.07		.06
HARVARD NURSERY			
R. F. D. 1			
Harvard, Ill.			

**FINER LINERS OF CHOICE ORNAMENTALS**  
See our display on page 51.  
JOHN VERMEULEN & SON, INC.  
Neshanic Station 2, N. J.

**LINING-OUT STOCK**  
Biotia, Ilex, Juniper, Taxus, Thuja, Retinospora and Broad-leaved, rooted cuttings and transplants. List upon request.  
MIST-O-GATION, INC., Middletown, Del.

Set Stock Quickly and Easily with American Nurseryman Classified Ads.

**LINERS OF THE BETTER KINDS**  
Write for price list.  
GULF STREAM NURSERY, INC.  
Wachapreague, Va.

## MAGNOLIAS

Magnolia grandiflora, 4 to 8 ins. high; shipped in 2 1/4-in. pots, \$15.00 per 100, \$140.00 per 1000 here, you pick up. Can furnish several thousand 2 1/4-in. Magnolias, 2 to 4 ins. high, \$110.00 per 1000 here, you pick up. If you have room in greenhouse, these should make a spurt of growth of about 12 ins. hurriedly. Have seedlings just coming up (January 22), not in fine order in two weeks, \$35.00 per 1000, \$4.50 per 100. Shipped in plastic bags, air parcel post, you pay postage. Others in cans and pots, bushel baskets, up to about 8 ft. Cash with order earns 2 per cent discount; otherwise 25 per cent cash with order and balance before shipment.

Harwell Nursery, Van Buren, Ark.

**MAGNOLIAS**  
SOULANGEANA and NIGRA  
12 to 18 ins., \$25.00 per 100.  
Good dormant stock ready to line out  
FLOWERWOOD NURSERY, INC.  
Lexley, Ala.

## MAPLES

**ACER PALMATUM ATROPURPUREUM**  
Japanese Red Maple seedlings.  
Carefully selected. Finest reds only.  
Well hardened from open field beds.  
Liners and heavy potting grades.  
in large quantities.

	Per 100	more
	Each	Each
Branched transplants		
2-yr. X, 10 to 12 ins.	\$0.55	\$0.50
2-yr. X, 12 to 15 ins.	.65	.60
For 6-in. pots, nicely branched		
3-yr. XX, 12 to 15 ins.	.80	.75
3-yr. XX, 15 to 18 ins.	.95	.90
For 6 and 8-in. pots, nicely branched		
For 6 XXX, 10 to 12 ins.	1.00	.95
4-yr. XXX, 12 to 15 ins.	1.25	1.15
4-yr. XXX, 15 to 18 ins.	1.60	1.50
All 3 and 4-yr. grades are excellent plant material, salable now. Shipped bare-root in sphagnum.		
20 per cent deposit will reserve your order, balance before delivery.		
HUBBS NURSERIES		
Route 130		
Specializing in Maple seedlings for 12 years.		
Riverton, N. J.		

**NORWAY MAPLE**  
Straight trunks, Fine heads. Very fibrous roots.

	10-49	50-250
	\$	\$
6 to 8 ft.	3.00	2.50
8 to 10 ft., 1 to 1 1/4-in.	4.40	3.50
9 to 11 ft., 1 1/4 to 1 1/2-in.	6.00	5.00
10 to 12 ft., 1 1/2 to 1 3/4-in.	8.80	7.00
11 to 13 ft., 1 3/4 to 2-in.	11.00	9.00
PRINCETON NURSERIES		
Princeton, N. J.		

**MAPLES**  
Sugar and Norway Maples, 8 to 16 and 18 to 24 ft. Nice trees priced right. Send for spring list of specimen ornamentals, Azaleas and liners.

**THE TANKARD NURSERIES**  
Exmore, Va.

**SILVER MAPLE**  
10,000 seedlings, 18 to 24 ins., from the strongest, straightest tree we have known. 200 or more at \$4.50 per 100. Usual terms.  
**THE COLE NURSERY CO.**  
Since 1881

**COLLECTED ACER**  
**RUBRUM AND SACCHARUM**  
from whips to 4-in. caliper.  
**CURTIS NURSERIES, INC.**  
Callicoon, N. Y.

Acers, saccharum and rubrum, root-pruned, field specimens, 2-in. to 12-in. caliper.  
R. H. Rogers Nursery, Cooperstown, N. Y.

**MAPLES, HARD AND SOFT**  
SEND FOR NEW LIST.  
**NAGLE'S NURSERY, DECATUR, MICH.**

Watch Your Results From American Nurseryman Classified Ads.

## PACHYSANDRAS

**PACHYSANDRAS**  
1-yr.-old, large-frame plants.  
Satisfaction guaranteed.  
Large quantity.  
\$5.50 per 100, \$45.00 per 1000.  
\$40.00 per 5000.

**BRUNDAGE & GUTHRIE**  
123 Franklin St.

Pachysandras, strong plants, grown in soil frames with light shade. First-class stock. \$45.00 per 1000; \$42.50 per 1000 for 5000 or more, including good packing.  
Peckskill Nursery, Shrub Oak, N. Y.

**PACHYSANDRAS**  
Strong rooted cuttings, \$4.25 per 100, \$40.00 per 1000.  
**DUNWOODIE NURSERIES**  
6 Smart Ave.

Yonkers, N. Y.

## PACHYSANDRA TERMINALIS

	Per 100	Per 1000
1-yr. plants	\$ 5.00	\$42.50
2 1/4-in., pot-grown plants	10.50	95.00
HANSEN BROS. NURSERIES, INC.		
1268 Montgomery Ave.		
Narberth, Pa.		

## PACHYSANDRA TERMINALIS

1-yr., field-grown, \$65.00 per 1000.  
Rooted cuttings, \$4.25 per 100.  
HILLCREST GREENHOUSES  
Box 465 Franklin, Pa.

## PACHYSANDRAS

Out of 2-in. pots, \$13.00 per 100, \$100.00 per 1000. F.O.B. Elizabeth, N. J.  
**DELAWARE VALLEY NURSERY**  
948 N. Broad St. Elizabeth, N. J.

## PANSIES

**SURPLUS PANSY PLANTS**  
Field-grown in sand loam soil. July-sown, ready to bud and bloom.  
ROGLI STRAIN, SUPER  
SWISS GIANTS ..... \$7.00 per 1000  
KAZOO-GOLIATH, prize mixture ..... 6.00 per 1000  
VAN ENGEL'S  
KALAMAZOO GARDENS NURSERY  
206 Richard Ave. Kalamazoo 33, Mich.

## PEONIES

**2-YR. FIELD-GROWN PEONIES**  
Whole clumps, not divided; 6 eyes and up, \$75.00 per 100, \$700.00 per 1000; divisions, 2 to 5 eyes, \$40.00 per 100, \$350.00 per 1000, following varieties:  
Adolph Rousseau, Albert Crousse, Baroness Schroeder, Duch. de Nemours, Edulis Superba, Felix Crousse, Festiva Maxima, Gen. McMahon, Karl Rosefeldt, Lady Alex. Duff, Marie Lemoine, Mons. Jules Elie, Reine Hortense, Sarah Bernhardt.  
**VERKADE'S NURSERIES, Wayne, N. J.**

**GRAFTED TREE PEONIES**  
Red, white, pink, purple; 1-yr., \$10.00 per 10; 2-yr., \$15.00 per 10. A Yellow Tree Peony for \$2.95 with each order. Double red Fern-leaved Peonies, \$18.50 per 10.  
**ATHA GARDENS, WEST LIBERTY, O.**

## PHLOX

**PHLOX SUBULATA**  
(Creeping Phlox)  
An excellent choice of varieties. Freshly dug. Prompt shipment prepaid by us.  
Alba, pure white  
Astro, deep orchid-rose  
Blue Hills, attractive medium blue  
Butterfly, lilac bluish, showy purple eye  
Crimson Beauty, brilliant cyclamen-red  
Sensation, bright pink with red eye  
Red Wing, large glowing red flowers

Transplants, \$9.50 per 100, \$90.00 per 1000. Liners, \$5.00 per 100, \$45.00 per 1000, prepaid.  
250 or more of one variety at 1000 rate. All transportation charges prepaid by us. Careful packing and each variety labeled. Terms: Cash with order.

**TANGLEWOOD FARM**  
P. O. Box 336-N Phone 1060 Clinton, S. C.

**SURPLUS PHLOX SUBULATA**  
Acres of them grown in sand loam soil, full clumps.

	250	Per 1000 or more
	\$	\$
ALBA, white	\$0.10	\$0.08
EMERALD CUSHION, pink	.10	.08
EMERALD CUSHION, blue	.10	.08
ATROPURPUREA, red	.10	.08
AMOENA (semi-dwarf pink)	.10	.08
Rooted divisions of the above listed	.04	.03 1/2
VAN ENGEL'S		
KALAMAZOO GARDENS NURSERY		
206 Richard Ave.		
Kalamazoo 33, Mich.		
Phones: FI 5-8190; MO 5-7163.		

**PHLOX SUBULATA**  
Healthy, undivided field-grown clumps available now. 15 varieties to choose from, \$12.00 per 100. When buying from "Walters" you not only get the best in quality, but our experience in handling and shipping "Moss Phlox" is actually a free bonus on your purchase. "America's largest grower of Moss Phlox."

**WALTERS GARDENS**  
Route 2 Zeeland, Mich.

## PIERIS

**PIERIS JAPONICA (ANDROMEDA)**  
Per 100 Per 1000  
4-yr., TT, 8 to 12 ins. .... \$40.00 \$350.00  
4-yr., TT, 6 to 8 ins. .... 30.00 250.00  
**PETER BROUWER'S NURSERIES**  
24 Lester St. New London, Conn.

**PIERIS JAPONICA (ANDROMEDA)**  
Per 100 Per 1000  
1-yr., T., 2 to 3 ins. .... \$8.00 \$75.00  
**PLANE VIEW NURSERY**  
West Main Rd. Newport, R. I.

**PIERIS JAPONICA**  
**CHOICE LINERS** 1958  
 8 to 12 ins., field rows, 3-yr., T.T. \$40 \$375  
 6 to 8 ins., peat bed, 2-yr., T.T. 30 275  
 4 to 6 ins., peat bed, 2-yr., T.T. 20 175  
 No packing charges.  
**ECKHART NURSERIES**  
 16 Toppa Blvd. Newport, R. I.

### PRIVET

Thousands of Amur River North Privet.  
 Per 100 Per 1000  
 18 to 24 ins. \$3.00 \$25.00  
 2 to 3 ft. 4.00 30.00  
 3 to 4 ft. 5.00 40.00  
 Immediate shipment. Satisfaction guaranteed. Robinson Nursery Co., Greenville, Ga.

### PYRACANTHAS

**PYRACANTHAS**  
 Pyracantha coccinea lalandi and Pyracantha formosana, from 3 1/4-in. pots. Ready for 1-gal. cans or field planting, \$17.50 per 100, \$150.00 per 1000.  
**BLACKWELL NURSERIES**  
 Semmes, Ala.

### RHODODENDRONS

**RHODODENDRONS**  
 Named hybrids. Own-root.  
**RED VARIETIES**  
 America Gen. Eisenhower (new)  
 \*Caractacus \*Giganteum  
 \*Charles Bagley \*Lady Clermont  
 Dr. Dresselhuys  
 El Alamein (new)  
**PINK VARIETIES**  
 \*English roseum \*Roseum elegans  
 Ignatius Sargent \*Roseum superbum  
 \*Parsons gloriosum  
**PURPLE AND LAVENDER VARIETIES**  
 \*Catawbiense Bour- Everestianum  
 sault Lee's Dark Purple  
 \*Catawbiense grandiflorum \*Purpureum elegans  
**WHITE VARIETIES**  
 \*Album elegans \*Cunningham White  
 \*Album novum \*Catawbiense album  
 Boule de Neige  
 Strong rooted cuttings from flats.  
 Red varieties, \$75.00 per 100.  
 Other colors, \$60.00 per 100.  
 Starred varieties (\*) also available in fine plants, 2 years in the field.  
 Red varieties, \$100.00 per 100.  
 Other colors, \$120.00 per 100.  
 All F.O.B. Rutherford, subject to prior sale. Packing at cost. Order today while selections are complete.  
**BOBBINK NURSERIES, INC.**  
 East Rutherford, N. J.

### STRONG CUTTINGS

Now rooted and flatted 30 to a large flat. Will grow on and be ready for shipment as first-class liners May 1.  
 Group 1: Album elegans, cat. grandiflorum, roseum superbum, roseum elegans.  
 Group 2: Cat. album, candidissimum, English roseum, luciferum, purpureum elegans.  
 Group 3: America, Cynthia, caractacus, Chas. Bagley, F. D. Godman, Ignatius Sargent, Kate Waterer, Prof. Bettex, Prof. Rutgers.  
 Group 1, \$65.00 per 100.  
 Group 2, \$80.00 per 100.  
 Group 3, \$100.00 per 100.  
 Ask for our new list of Rhododendrons, Azaleas and Hlox.  
**JAMES S. WELLS NURSERY, INC.**  
 P. O. Box 141 Red Bank, N. J.

**SELL OUT AND BLOCK CLEARANCE**  
 Best hardy red varieties.  
 1000 3-yr. GRAFTED HYBRIDS, cut back, heavily rooted, 12 to 15-in. liners, \$1.90 each, per 100. Entire block, \$1750.00.  
 300 Dr. Dresselhuys, 24 to 36 ins., \$4.50 each. Entire block, \$1200.00.  
 75 Bourasalt, 3 to 4 ft., \$5.50 each. Block, \$375.00.  
 500 2-YR. OWN-ROOT LINERS  
 America, Bourasalt, \$1.50 each.  
 160 sheared Canadian Hemlock, 2 to 5 ft., block, \$480.00.  
 80 specimen Mountain Laurel, Clumpa, 2 1/4 to 4 ft., block, \$300.00.  
**WINDY HILL NURSERIES**  
 Wood St. Mercury 5-2744 Saltsburg, Pa.

### RHODODENDRONS

Unnamed hybrids of hardy ponticum-catawbiense parentage. Good foliage. Largely in pastel shades.  
 Each  
 12 to 15 ins., bushy, with buds, B&B, \$1.50  
 10 to 12 ins., bushy, with buds, B&B, 1.20  
 (Without buds, 20 per cent less.)  
 Rhododendrons for growing on or over the counter sale, with firm, lightweight ball. Bed-grown, XXX transplanted.  
 4 to 6 ins., per crate of 50 units, \$12.50  
 6 to 8 ins., per crate of 50 units, 15.00  
**RICHARD P. RESSEL, MULINO, ORE.**

### RHODODENDRONS

**HYBRID RHODODENDRONS**  
 Landscape sizes  
 Different colors.  
**PARMENTIER ROSES**  
 Grady St. Bayport, L. I., N. Y.  
 Phone Bayport 8-9811

**FAMOUS DEXTER**  
**RARE RHODODENDRON FORTUNEI**  
 Hardy hybrid seedlings of the finest collection north of Boston. Many clear pinks, ruffled, some fragrant.  
 Jiffy-Pots, 3-in., \$75.00 per 100; 2 1/4-in., \$40.00. Trial, 25 for \$10.00. Shipment any time.

**NORTH SHORE GARDENS**  
 13 Spring St. Ipswich, Mass.

**ALL RED 1-YR. GRAFTS**  
 Imported by air, carefully re-established with a full root system. Ready May 1, 1958.  
**AMERICA, DR. DRESSELHUYS, E. S. RAND, IGNATIUS SARGENT, JOHN WALTER, NOVA ZEMBLA.**  
 \$125.00 per 100.  
 Ask for our new list.

**J. S. WELLS NURSERY, INC.**  
 P. O. Box 141 Red Bank, N. J.

100,000 hybrid Rhododendrons, liners, landscape named varieties of 500 pink, purple, lavender, 550; red, 700 up. Yellow, blue, black, fragrant. Kordus Nursery, Deer Park Ave., R. 4, Box 152, Huntington, N. Y.

**RHODODENDRON MAXIMUM**  
 Nursery-grown and collected, 2 to 7 ft. high. Well-shaped, symmetrical plants.  
**CURTIS NURSERIES, INC.**  
 Callicoon, N. Y.

### ROSEBUSHES

**MINIATURE ROSES**  
 Beautiful little darlings, like miniature Hybrid Teas; seldom over 10 ins. tall. The plants we sell are own-root from 2 1/4-in. pots.  
 Variety Per 10 Per 100  
 Centennial Miss (pat. 1301), \$5.00 \$45.00  
 Crimsom ..... 4.00 35.00  
 Oakington Ruby, red ..... 4.00 35.00  
 Pink Joy (pat. 1378) ..... 4.50 40.00  
 Rosa Rouletti, pink ..... 4.00 35.00  
 Frosty (pat. 1412), white ..... 5.00 45.00  
 Fizzle (pat. 405), white ..... 4.50 40.00  
 Jackie, yellow ..... 5.00 45.00  
**SPRING HILL NURSERIES CO.**  
 Dept. AN-2 Tipp City, O.

**3-YR. FIELD-GROWN BUSHES**  
**IRRIGATED, CULTIVATED, FERTILIZED**  
**AND DUSTED REGULARLY**  
**BARE-ROOT, F.O.B. TYLER**  
 100 to 499 500 to 1000  
 No. 1 ..... \$2.00 each No. 1 ..... \$2 1/4 each  
 No. 1 1/2 ..... 27c each No. 1 1/2 ..... 25c each  
 No. 2 ..... 20c each No. 2 ..... 18c each  
 Individually wrapped in attractive bags, picture label, paraffin dipped, 10c per bush extra. Package of 3 No. 2, 75c per package. No packing charge on 100 or more plants.  
**MALONE NURSERY**  
 502 S. Broadway Tyler, Tex.

**THE SEASON'S BEST DEAL**  
 See for yourself  
 BY  
 sending for our 1957-58 trade list.  
**WE STILL OFFER YOU A CHOICE OF**  
**BARE-ROOT AND PREPACKAGED,**  
**PATENT AND STANDARD ROSES.**  
**NEW LONDON ROSES**  
 "The Rose Nursery"  
**P. O. Box 876 Overton, Tex.**

**ROSES**  
 Hybrid Teas, climbers, polyanthas and floribundas. Excellent quality, priced reasonably. List of varieties free on request.  
**LINDALE NURSERY**  
 Box 141 Lindale, Tex.  
 Phone 18F2-W.

## For \$4.00

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

### At 40c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the May 15 issue to reach us by April 25.

Forms for June 1 issue will close May 9.

## AMERICAN NURSERYMAN

343 S. Dearborn St. CHICAGO 4, ILL.

### POTTED ROSES

20,000 field-grown (our own).  
 Standard varieties, 85c each.  
 Patented varieties, \$1.00 to \$1.25 each, 100 lots.

Come and get them (any amount) or let us make arrangements for trucking (1200 to load). All plants are in frames and growing. Each plant has color tag. Ideal for roadside market or nursery yard.

**DANEGER'S HI-WAY NURSERY, INC.**  
 Box 336 Milford, Del.

### WESTERN-GROWN ROSEBUSHES

Harvest time has started now. Full assortment of varieties and grades, also booking orders for individually wrapped with colored pictures for counter sales.

Write for descriptive price list with full assortment of Rosebushes, shrubs, fruit trees and vines.  
**HOME NURSERY GREENHOUSES, INC.**  
 Lock Box 151 Edwardsville, Ill.

### ROSEBUSHES

**A WIDE ASSORTMENT OF REASONABLY PRICED HIGH-QUALITY ROSEBUSHES WITH FAST, COURTEOUS SERVICE**  
**IS WHAT YOU GET AT**  
**MARTIN'S ROSE NURSERY**  
**P. O. Box 155 Arp, Tex.**

Phone UL-92191  
 (A copy of our 1957-58 price list will be mailed to you upon request.)

### OUR OWN FIELD-GROWN ROSEBUSHES

For early winter.  
 Standard varieties, No. 1, 50c; No. 1 1/2, 40c. Patented varieties available at fixed prices. Budded on seedlings with a fine root system. Ideal for potting or home planting.  
**DANEGER'S HI-WAY NURSERY, INC.**  
 Box 336 Milford, Del.

### NORTHERN-GROWN ROSES

Extra strong. Standard and patented varieties, Hybrid Teas, grandifloras and climbers. No. 1 plants.  
 Circular and prices mailed on request.  
**D & D ROSE GARDENS, Eatontown, N. J.**

### SEEDS

#### TREE AND SHRUB SEEDS

Scotch Pines (including French Auvergne), Red and White Pine.  
 Red, White and Black Spruce.  
 Fraser, concolor and Douglas Fir, Balsam, Yews, wild Apple seed (Europe) and miscellaneous tree and shrub seeds.  
 Write for list.

#### FORESTRY ASSOCIATES

P. O. Box 1069 Allentown, Pa.

#### JUNIPER SEED

Juniperus virginiana (Platt, Neb. Red Cedar)  
 Juniperus scopulorum (S. D.), This seed will cut 95 per cent.  
 \$4.00 per lb.; \$3.25 in 25-lb. lot up.  
 Juniperus virginiana (Mo.), \$3.00 per lb.; \$2.50 in 10-lb. lot up.  
**FORESTRY SEED SERVICE**  
 Cuba, Kan.

#### EVERGREEN SEEDS. FREE LIST.

Available in 50c tr. pkts. or by lb.  
**MELLINGER'S, INC.**  
 Box AN North Lima, O.

### SHRUBS AND TREES

**SHRUBS AND TREES**  
 Taxus cuspidata capitata 100 1000  
 2-yr. seedlings, 4 to 6 ins. \$9.00 \$75.00  
 3-yr. transp. seedl., 4 to 8 ins. 15.00 125.00  
 Tsuga canadensis  
 2-yr. transplanted, 4 to 6 ins. 10.00 85.00  
 3-yr. transplanted, 6 to 9 ins. 16.00 125.00  
 4-yr. transplanted, 9 to 12 ins. 25.00 200.00  
 Cornus florida  
 1-yr. seedlings, No. 1 ..... 6.00 50.00  
 1-yr. seedlings, No. 2 ..... 5.00 40.00  
 2-yr. seedlings, No. 1 ..... 12.50 100.00  
 Andromeda japonica  
 transplanted cuttings ..... 17.50 150.00  
**ROOTED CUTTINGS FROM SAND**  
 Taxus andersoni ..... 15.00 125.00  
 Taxus brevifolia ..... 15.00 125.00  
 Taxus Moon's columnaris ..... 15.00 125.00  
 Taxus densiformis ..... 15.00 125.00  
 Taxus Halloran ..... 15.00 125.00  
 Taxus henryi ..... 15.00 125.00  
 Taxus browni ..... 11.00 100.00  
 Taxus cuspidata nana ..... 11.00 100.00  
 Taxus hatfieldi ..... 11.00 100.00  
 Taxus intermedia ..... 11.00 100.00  
 Taxus hunnewelliana ..... 11.00 100.00  
**1-YR. BEDDED**  
 Taxus andersoni ..... 17.50 150.00  
 Taxus browni ..... 17.50 150.00  
 Taxus cuspidata ..... 17.50 150.00  
 Taxus hatfieldi ..... 17.50 150.00  
 Taxus hickel ..... 17.50 150.00  
 Taxus hunnewelliana ..... 17.50 150.00  
 Taxus intermedia ..... 17.50 150.00

We also have to offer a complete assortment of potted grafted stock, root grafts of Kwansan Cherry, Crab Apples, Lilacs, etc. Please ask for complete list. Special prices on quantity orders.

**NURSERY SALES, INC.**  
 P. O. Box 295 Ridgewood, N. J.



## SHRUBS and TREES—Continued

POTTED GRAFTS, 1-YR.		Per 100
<i>Acer palmatum atropurpureum</i>	dissectum	\$75.00
<i>Fagus sylvatica rivealis</i>		75.00
ROOTED CUTTINGS, 1-YR., BEDDED		Per 100 Per 1000
<i>Chamaecyparis cyano viridis</i> , 3 to 4 ins.		\$15.00
<i>Euonymus patens</i> , 4 to 6 ins.		10.00
<i>Chamaecyparis filifera aurea</i> , 4 to 6 ins.		15.00
<i>Ilex bullata</i> , 4 to 6 ins.		10.00
<i>Ilex crenata</i> , 5 to 8 ins.		10.00
<i>Ilex glabra</i> , 4 to 6 ins.		10.00
<i>Thuja nigra</i> , 5 to 8 ins.		10.00
<i>Azalea hinodogiri</i> , 2-yr. trans. (well-branched), 4 to 6 ins.		25.00
<i>Azalea Hino-Crimson</i>		12.00
<i>Azalea Hinodogiri</i>		12.00
<i>Azalea kaempferi</i> Fedora		12.00
<i>Euonymus japonicus</i>		12.00
<i>Pieris japonica</i>		12.00
<i>Pachysandras</i>		4.00
1-YR. SEEDLINGS		
<i>Acer palmatum</i>		3.00
<i>Cornus florida</i>		5.00
<i>Chinese Chestnut</i>		10.00
<i>Fagus sylvatica</i>		10.00
<i>Taxus capitata</i>		5.00

2-YR. SEEDLINGS		
<i>Azalea schlippenbachii</i> (2-yr. transplants)		15.00
<i>Azalea mollis</i> (2-yr. transp.)		15.00
<i>Acer palmatum</i>		6.00
<i>Balsam Fir</i> , 3 to 5 ins.		4.00
<i>Colorado Pinon Pine</i> (glauca), 4 to 8 ins.		8.00
<i>Concolor Fir</i> , 4 to 6 ins.		8.00
<i>Cornus florida</i> , 8 to 14 ins.		5.00
<i>Douglas Fir</i> (glauca), 4 to 8 ins.		6.00
<i>Douglas Fir</i> (viridis), (green), 4 to 8 ins.		6.00
<i>Ilex crenata</i> , 4 to 6 ins.		5.00
<i>Leucothoe catesbaei</i> (2-yr. transpl.), 6 to 10 ins.		30.00
<i>Picea excelsa</i> , 4 to 6 ins.		3.50
<i>Picea engelmannii</i> , 3 to 6 ins.		6.00
<i>Picea</i> (Black Hills Spruce), 3 to 6 ins.		5.00
<i>Picea pungens glauca</i> , 3 to 5 ins.		4.00
<i>Picea sitchensis</i> (Sitka), 3 to 5 ins.		6.00
<i>Picea</i> (White Spruce), 4 to 6 ins.		3.50
<i>Pinus strobus</i> , 4 to 6 ins.		3.50
<i>Pinus sylvestris</i> , 4 to 6 ins.		3.50
<i>Pinus thunbergii</i> , 4 to 6 ins.		4.00
<i>Taxus capitata</i> , 4 to 6 ins.		7.00
<i>Thuja occidentalis</i> , 4 to 6 ins.		5.00
<i>Thuja orientalis</i> , 4 to 8 ins.		3.50
<i>Tsuga canadensis diversifolia</i> , 3 to 4 ins.		6.00
<i>Tsuga canadensis</i> , 3 to 4 ins.		6.00
3-YR. TRANSPLANTS		
<i>Douglas Fir</i> , 5 to 8 ins.		6.00
<i>Taxus capitata</i> , 4 to 8 ins.		12.00
<i>Picea caroliniana</i> , 3 to 6 ins.		10.00
<i>Tsuga canadensis</i> , 4 to 7 ins.		8.00
<i>Pinus strobus</i> , 5 to 8 ins.		7.00
4-YR. TRANSPLANTS		
<i>Picea excelsa</i> , 6 to 8 ins.		6.00
<i>Picea pungens glauca</i> , 4 to 8 ins.		7.00
<i>Tsuga canadensis</i> , 5 to 8 ins.		10.00
<i>Tsuga canadensis</i> , 8 to 10 ins.		15.00
<i>Tsuga canadensis</i> , 10 to 12 ins.		20.00

**VAN DINE NURSERY**  
287 Berdan Ave. Wayne, Preakness, N. J.

**FLOWERING TREES**  
Crab Apple, 40 varieties; 1-yr. trees. Limited number. 7 to 8 ft. reset at one year. Descriptive booklet available.  
*Crataegus Winter King*, 5 to 6 ft., whips, \$1.50.  
*Magnolia soulangeana* and *nigra*, 4 to 5 ft., heavy, B&B, \$5.00.  
5 to 6 ft., heavy, B&B, \$6.00.  
6 to 8 ft., heavy, B&B, \$7.00.  
*Cornus kousa chinensis*, seedlings, 5 to 6 ft., B&B, \$6.00.  
6 to 8 ft., B&B, \$7.00.  
*Cydonia Crispum Beauty*, Heavy, 6 to 8 ft., B&B, \$6.00.

**SIMPSON ORCHARD CO., INC.**  
1504 Wheatland Rd. Vincennes, Ind.  
Phone 439-3

**WELL-GRADED SHRUBS**  
Available for immediate delivery.  
*Barberry*, red-leaved, 2-yr. transplanted, 12 to 15 ins. bushy.....25c  
9 to 12 ins.....15c  
*Buddleia Charming* (pink), No. 1.....25c  
*Buddleia hartwegii* (purple), No. 1.....25c  
*Deutzia gracilis*, 12 to 15 ins.....25c  
*Hydrangea F.R.*, 12 to 18 ins.....25c  
*Philadelphus aureus*, 9 to 12 ins.....25c  
*Philadelphus virginialis*, 2 to 3 ft.....35c  
*Spiraea Anthony Waterer*, 18 to 24 ins.....35c  
*Spiraea foersteri*, 2 to 3 ft.....25c  
*Viburnum plicatum* (Japanese Snow-ball), 2 to 3 ft.....75c  
18 to 24 ins.....60c

Send for list of other offerings.

**CONDON'S WHOLESALE NURSERY**  
North Collins, N. Y.

**LARGE LANDSCAPE MATERIAL**  
14 Amelanchier, 15 to 18 ft.  
5 Biota aurea conspicua, 12 to 14 ft.  
25 Biota aurea nana, 2 1/2 to 3 ft.  
11 Biota elegantissima, 10 to 12 ft.  
165 Cercis canadensis, 10 to 16 ft.  
90 Chamaecyparis plumosa aurea, 4 to 8 ft.  
30 Chamaecyparis planifera aurea, 8 to 12 ft.  
10 Chamaecyparis filifera aurea, 7 to 8 ft.  
24 Chamaecyparis obtusa crispal, 9 to 12 ft.  
60 Chamaecyparis squarrosa veitchii, 10 to 14 ft.  
15 Chamaecyparis nootkatensis pendula, 8 to 9 ft.  
25 Crataegus phaenopyrum (cordata), 15 to 18 ft.  
4000 Cornus florida, 7 to 20 ft.  
8 Halesia tetrapetala, 12 to 15 ft.  
11 Juniperus canariensis, 18 to 20 ft.  
18 Juniperus depressa plumosa, 6 to 8 ft. spread  
10 Juniperus hetzii, 7 to 8 ft. spread  
6 Juniperus pfitzeriana compacta, 4 to 5 ft.  
20 Juniperus virginiana glauca, 14 to 18 ft.  
12 Magnolias, mixed; 9 to 12 ft.  
9 Picea glauca densata, 14 to 18 ft.  
9 Picea koyamai, 14 to 16 ft.  
30 Picea pungens, 14 to 20 ft.  
30 Pinus mughus, 4 to 10 ft. spread  
6 Pinus strobus, 15 to 18 ft.  
16 Pinus thunbergii, 12 to 14 ft.  
15 Rhododendron maximum, 6 to 8 ft., large clumps  
10 Rhododendron carolinianum, 4 ft. clumps  
85 Spiraea vanhouttei, 5 to 6 ft.  
500 Syringa hybrid seedlings, 6 to 9 ft.  
600 Taxus capitata, 4 to 7 ft.  
30 Taxus hicksii, 4 to 6 ft.  
325 Taxus hicksii, 4 to 6 ft.  
9 Taxus repandens, 6 to 7 ft. spread  
1240 Viburnum carlesii, 2 to 5 ft.

**SHADE TREES**  
260 Pin Oaks, 3 to 6-in. caliper  
52 Sweet Gum, 4 to 7-in. caliper  
45 European Beech, 3 to 6-in. caliper  
60 Red Oak, 3 to 7-in. caliper  
12 Sugar Maple, 3 to 7-in. caliper  
**GEORGE F. BLOOMER NURSERY**  
Route 69 Flemington, N. J.

**SHRUBS AND TREES**  
Berberis thunbergii, 12 to 15 ins., 15c; 15 to 18 ins., 20c.  
Boxwood, English, 8 to 10 ins., 15c.  
Evergreen Azaleas, 8 to 10 ins., 75c; 10 to 12 ins., \$1.00 (in 11 varieties).  
Hedera helix (English Ivy, with pot), 20c.  
Ilex convexa (bullata), 4 to 6 ins., 10c; 10 to 12 ins., 40c; 12 to 15 ins., 50c.  
Ilex latifolia (strong growth), 6 to 8 ins., 10c; 10 to 12 ins., 17 1/2c; 12 to 15 ins., 50c.  
Bushy.  
Juniperus hetzii, 18 to 24 ins., \$1.75; 24 to 30 ins., \$2.25.  
Juniperus pfitzeriana, 12 to 15 ins., \$1.50; 15 to 18 ins., \$2.00; 18 to 24 ins., \$2.25.  
Juniperus virginiana, 3 to 4 ft., \$2.50.  
Malus (Crab Apple), 3 to 5 ft., \$1.25 (in 11 varieties).  
Prunus glandulosa, root-pruned, 2 to 2 1/2 ft., 60c.  
Thuja globosa, 12 to 15 ins., \$1.50; 15 to 18 ins., \$1.75.  
Thuja pyramidalis comp., 2 to 3 ft., \$1.50; 3 to 4 ft., \$1.90; 4 to 5 ft., \$2.75; 5 to 6 ft., \$3.25.

**LINING-OUT STOCK**  
Evergreen Azalea liners, 2-yr., 20c; 3-yr., 35c.  
Euonymus alatus, 3-yr., 17c.  
Foraythia spectabilis, 3-yr., 8c.  
Ilex opaca, 2-yr., 30c.  
Taxus cuspidata, 8 to 10 ins., 3-yr., 30c.  
Taxus hicksii, 8 to 10 ins., 3-yr., 30c.  
Viburnum opulus, 3-yr., 12c.  
Don't delay!  
Let us hear from you today.

**LITTLE MOUNTAIN VIEW NURSERIES**  
2701 Route 84 Mentor, O.  
Azalea mollis  
10 to 12, B&B .....\$ 0.65  
12 to 15 .....80  
15 to 18 .....1.25  
4 to 6, 2-yr., T, per 100 .....15.00  
6 to 8 .....20.00  
8 to 10 .....25.00  
Azalea Herbert (evergreen)  
10 to 12 .....60  
Azalea Othello, 10 to 12 .....60  
12 to 15 .....75  
Lilac liners, \$20.00 per 100:  
Ambassador, Ruhm Von Horstenstein,  
Chas. X. Ludwig Spahr, Lemoine,  
H. Dekort & Son Nursery, 933 Lincoln St.  
N.W., Grand Rapids 4, Mich.

**AZALEAS**  
Amoena, Coral Bells, Fedora, Good Times, Herbert, Hinodogiri, Louise Gable, Othello, Palestrina, Pink Pearl, Poukhanensis, Rosebud, size range 8 to 10 ins. to 15 to 20 ins. Prices, 80c to \$1.50.  
**RHODODENDRONS**, roseum elegans and improved varieties of reds, including Drexelhays; Taxus, Ilex, in variety; Franklins and pink and white Dogwood.  
**WINDY ACRES NURSERY**  
(under irrigation)  
Chapel Heights Rd. Pitman, N. J.  
500 yds. off Route 47.

## NEW! ROYAL PURPLE SMOKEBUSH

(Rhus cotinus, royal-purple)  
There are several varieties of purple Smokebush, although Royal Purple is considered the very best. Several varieties of Smokebush have been cut in the nursery with Royal Purple always turning out to be the most outstanding. I am convinced of this to the extent that it is the only one now being propagated in the nursery. Royal Purple keeps its rich, dark purple reddish colored foliage from spring to late fall. In late summer the matured leaves show a mottled edge which is a light red edge around the dark purple leaf. It is an outstanding plant in that it draws the attention of all who visit the nursery and is greatly admired for its brilliant foliage. The foliage is darker than any red Japanese Maple. The plant is adaptable for use as a lawn specimen, especially in locations where the Japanese Maple is not hardy. Royal Purple is the only purple Smokebush to receive a certificate of merit from the Royal Horticultural Society. The branches make an excellent filler for bouquets, especially with Chrysanthemums.  
2 to 3 ft., bare-root, 2 to 5 branches, 1 to 99, \$1.75 each; 100 or more, \$1.50 each.  
3 to 4 ft., bare-root, per 10, \$3.50 each; per 100, \$3.00 each.  
Circular with colored picture of Royal Purple Smokebush sent on request.  
**C. HOOGENDOORN, NURSERYMAN**  
Newport, R. I.

**ROOTED CUTTINGS**  
Spring delivery Each 100 1000  
Taxus cuspidata, capitata .....\$0.10 \$0.05  
Arborvitae, Pyramidal, Globe, Am. ....1.10 .08  
Juniper, Pfitzer, hetzii, Savin V.E. ....1.10 .08  
**BED LINERS, 2-yr.**  
Juniper, Pfitzer, Savin V.E. ....35 .30  
Arborvitae, Pyramidal, Globe, Am. ....35 .30  
**POTTED TAXUS**  
Taxus cuspidata, capitata,  
1 1/2-in. disintegrating band ....18 .15  
**4-YR. LINERS**  
Taxus cuspidata, capitata, hicksii  
XX, 8 to 10 ins. ....75 .65  
Scotch Pine, XX, 12 to 24 ins. ....75 .65  
25 15 to 18 ins., 24 ins., \$25.00 per 1000  
200 1 1/2 to 2 1/4 ins., TT .....2.65 ..  
300 1 1/2 to 2 1/4 ins., TT, row-run 2.00 ..  
500 Silver Maple, 1 to 1 1/4 ins., TT 1.75 ..  
**TERMS:** 2 per cent discount, cash with order, free packing. One-fourth deposit holds your order until spring. 25 at 100 rate; 250 at 1000 rate.  
**WRITE FOR COMPLETE PRICE LIST.**  
**RICHARDSON NURSERIES**  
53947 Fir Rd., R. 1 Granger, Ind.  
Phone Blackburn 9-1010.

**SPRING 1958 WHOLESALE PRICE LIST**  
**LINERS, 2-yr., bedded stock** 100 1000  
Juniper, Andorra .....\$22.00 \$180.00  
10 to 12 ins. ....22.00 180.00  
8 to 10 ins. ....22.00 180.00  
Ilex rotundifolia, 6 to 8 ins. ....15.00 100.00  
Ilex rotundifolia, 8 to 10 ins. ....17.00 125.00  
Unnamed Rhododendron hybrids of hardy ponticum, well-branched catawbiense parentage. Good foliage with firm, lightweight ball, twice transplanted, bed-grown. Jap. beetle certified.  
4 to 6 ins. ....\$25.00 per 100, \$200.00 per 1000  
6 to 8 ins. ....30.00 per 100, 250.00 per 1000  
250 plants at 1000 rate. Stock offered subject to prior sale. Free packing. F.O.B. Willoughby, O. Terms: 2 per cent discount for cash with order, or by express C.O.D. Open Sundays. Visitors welcome.  
Balled and burlapped; well-sheared stock. Pick up at nursery.

**JUNIPERUS GLAUCOA HETZII**  
Each 1 to 10 to 25 25 up  
18 to 24 ins., B&B .....\$2.25 \$2.00 \$1.75  
**ILEX ROTUNDIFOLIA**  
14 to 18 ins., B&B .....2.00 1.75 1.50  
**LITTLE ACRES NURSERY**  
R. D. 2, Chardon Rd. Willoughby, O.

**PINUS STROBUS (WHITE PINE)**  
Nursery-grown, transpl. Each 10 100  
2 to 3 ft., B&B .....\$1.50 \$1.25  
3 to 4 ft., B&B .....2.25 2.00  
4 to 5 ft., B&B .....3.00 2.75  
6 to 6 ft., B&B .....4.25 4.00  
Large specimen quoted by request.  
*Kalmia latifolia*  
18 to 24 ins., B&B .....2.00 1.90  
24 to 30 ins., B&B .....2.75 2.50  
*Rhododendron maximum*  
18 to 24 ins., B&B .....2.00 1.90  
24 to 30 ins., B&B .....2.75 2.60  
30 to 36 ins., B&B .....3.25 3.00  
catawbiense, 18 to 24 ins., B&B 3.00 2.75  
24 to 30 ins., B&B .....3.50 3.25  
*Juniperus virginiana*, 2 to 3 ft.  
B&B .....1.25 1.00  
3 to 4 ft., B&B .....1.75 1.50  
4 to 5 ft., B&B .....2.25 2.00  
Cercis canadensis, 5 to 6 ft., tree form, bare-root .....1.00 .75  
24 to 30 ins., B&B .....2.00 1.75  
Let us quote on your order.

**J. A. WEDDINGTON & SON**  
4414 Holston Dr. Knoxville, Tenn.  
Phone 2-4417

## LIMITED SUPPLY OF GRAFTS AVAILABLE

Send your order in at once!  
Apple bench grafts, for immediate delivery; leading varieties, \$15.00 per 100, \$62.50 per 500, \$100.00 per 1000.

Flowering Crab bench grafts, for immediate delivery: Hops, Eley, Aldenheim, Parkman, \$20.00 per 100, \$90.00 per 500, \$150.00 per 1000. Almey, \$25.00 per 100.

## NATIVE SHADE TREES

Heavy branched.  
Red (rubrum) Maple, Pin Oak, Sweet Gum, River Birch and River Birch clumps.

	Each, 10	100
*3 to 4 ft., bare-root.....	1.00	1.00
*4 to 5 ft., bare-root.....	1.25	1.25
*5 to 6 ft., bare-root.....	1.50	1.50
*6 to 8 ft., bare-root.....	2.50	2.00
*8 to 10 ft., bare-root.....	3.50	3.25
1 to 1 1/2-in., B&B.....	6.50	6.00
2 to 2 1/2-in., B&B.....	12.00	11.50
3 to 3 1/2-in., B&B.....	16.50	16.00
3 to 3 1/2-in., B&B.....	22.00	21.00

Grades marked with \* sold only in quantities of 50 or more.

## EGYPTIAN NURSERY &amp; LANDSCAPE CO.

Farina, Ill.

## SHRUBS

## ALTHEAS, NAMED VARIETIES

2 to 3 ft.....	65c
3 to 4 ft.....	75c

## DEUTZIA GRACILIS

15 to 18 ins.....	50c
18 to 24 ins.....	60c

## FORSYTHIA SPECTABILIS

2 to 3 ft.....	50c
3 to 4 ft.....	60c

## HONEYUCKLE, ZABEL

2 to 3 ft.....	55c
3 to 4 ft.....	65c

## SPIRAEA ANTHONY WATERER

15 to 18 ins.....	50c
18 to 24 ins.....	60c

## TAMARIX, AMURENSIS AND HISPIDA

2 to 3 ft.....	60c
3 to 4 ft.....	75c
4 to 5 ft.....	95c

## PHILADELPHUS VIRGINALIS

2 to 3 ft.....	60c
3 to 4 ft.....	70c

## FRENCH NURSERY CO.

Phone 5331.....	Clyde, O.
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## ROOTED CUTTINGS FROM GREENHOUSE

Heeled-in in outside beds. Each

flex East Palatka, rooted cuttings.....	\$0.06
flex East Palatka, 2-in. pots.....	.15
flex cassine (wide leaf), rooted cuts.....	.15
flex cassine, 2-in. pots.....	.15
Forsythia Lynwood Gold, rooted cuts.....	.05
English Boxwood (dwarf), rooted cuts.....	.07
American Boxwood, rooted cuttings.....	.07
Cotoneaster microphylla (evergreen), rooted cuttings.....	.06
Nandinas, 2 1/2-in. pots, 4 to 6 ins.....	12 1/2

## CUTTINGS IN GREENHOUSE

flex opaca femina, rooted cuttings.....	.07
Lonicera nitida (dwarf), rooted cuts.....	.06
Cotoneaster parneyi, seedl., 2 to 3 ins.....	.04

## CUTTINGS, READY MAY 1 TO 15

flex vomitoria femina, rooted cuttings.....	.07
Pyracantha (red), rooted cuttings.....	.07
Ligustrum lucidum, rooted cuttings.....	.05

## CASH, PLEASE.

## BROSEMER NURSERY

Route 1, Box 197.....Huntsville, Ala.

## EVERGREENS, WHOLESALE

A wide selection of Evergreen seedlings and transplants, also hardwoods, shade trees, ornamentals, shrubs and flowering trees. Our selected seed with good heredity and scientific culture assures healthy trees with heavy roots for rapid growth.

Musser offers quality trees at a price made possible through large quantity production.

Our cold storage permits late shipments. No charge for packing and boxing. Ask for complete catalog and wholesale planting lists.

Our ad, appearing on pages 24 and 25 of this issue, shows a partial list of seedlings and transplants.

## MUSSEY FORESTS

Box 16-DC.....Indiana, Pa.

## HEAVY ROOTED CUTTINGS

Junipers, Hetz and Andorra

1-yr., rooted cuttings.....	\$0.10
2-yr., T, 6 to 10 ins.....	.25
3-yr., TT, 12 to 14 ins., heavy.....	.60

Retinospora, gold and green

1-yr., 4 to 6 ins.....	.11
2-yr., T, 8 to 10 ins.....	.30
3-yr., 10 to 12 ins., heavy.....	.60

Retinospora, Lawson

4-yr., TT, 12 to 15 ins., heavy.....	.60
Euonymus patens, 6 to 10 ins., TT.....	.25
flex crenata, 6 to 8 ins., T.....	.20

Red-leaved Japanese Maples

3-yr., TT, 12 to 18 ins.....	1.75
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## AMERICAN FORESTRY SERVICE CO.

Lancaster Pike above City Line Philadelphia 31, Pa.

## ROOTED CUTTINGS

Pfitzer Juniper, large berried Pyracantha, 5c each.

2 1/2-in., potted: Pfitzer Juniper, large berried red Pyracantha, Euonymus japonicus, Pyracantha lalandi, 10c each.

Buckets: Euonymus japonicus, 40c each; Pyracantha lalandi, 50c each, at nursery.

Cash with order.

## CARDEN'S NURSERY &amp; CUT FLOWERS

4201 North St.....Ft. Smith, Ark.

## SHRUBS AND TREES, BARE-ROOT

Each, 100

800 Cotoneaster apiculata, 18 to 24 ins.....	\$1.55
15 to 18 ins.....	1.50

1100 Cotoneaster divaricata, 2 to 3 ft.....	.95
800 Euonymus alatus, 2 to 3 ft.....	.90

600 Philadelphus virginialis, 18 to 24 ins.....	.35
Double-flowering, 2 to 3 ft.....	.45

1000 Salix purpurea, nana, 18 to 24 ins.....	.25
Dwarf Arctic Willow, 2 to 3 ft.....	.35

250 Viburnum burkwoodi, 18 to 24 ins.....	.75
B&B, add 50c per plant.	

Special quotations on large quantities. Truck loadings only.

GERARD K. KLYN, INC.

Mentor, O.

## TREE AND SHRUB SPECIALS

Prices quoted per 100; 30 takes 100 rate.

Green Ash, X, 4 to 5 ft. whips, 65c; 5 to 6 ft., 1/2 to 1-in., 90c.....	
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Chinese Elm, X, 1 to 1 1/2-in., 1.25; 1 1/2 to 1 1/2-in., 1.25.....	
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Thornless Honey Locust, X, 1 to 1 1/2-in., 1.25.....	
--	--

Deutzia Pride of Rochester, 8 to 4 ft., 30c.....	
--	--

Spiraea vanhouttei, 18 to 24 ins., heavy, 20c.....	
--	--

Weigela rosea, 3 to 4 ft., heavy, 30c; 4 to 5 ft., 45c.....	
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R. BRUMOND SMITH NURSERY

H. H. 2, Box 198.....Muncie, Ind.

Pfitzer Juniper, 2 1/2-in., potted one year, 6 to 8 ins., shipped out of pots, \$15.00 per 100, \$150.00 per 1000, in pots here, you pick up. Approximately the following 2 1/2-in. pots:

500 Keteleer Juniper, 1-yr., 6 to 8 ins., 20c.....	
--	--

300 Keteleer Juniper, 2-yr., 12 to 18 ins., 25c.....	
--	--

750 fastigiata Irish Juniper, 6 ins.; 1200 Buxus sempervirens, 5 ins., 15c; 500 Photinia serrulata, 7 to 12 ins., 20c; 1500 Photinia serrulata, 3 to 5 ins., 15c. Pots not included except where specified. Cash with order earns 2 per cent discount; otherwise 25 per cent cash with order and balance before shipment.	
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Harwell Nursery, Van Buren, Ark.

## TREE SEEDLINGS

	Bare-root Per 100	Per 1000
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Pin Oak, 2-yr., 12 to 18 ins.....	\$12.00	\$ 85.00
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Pin Oak, 2-yr., 18 to 24 ins.....	15.00	125.00
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Norway Maple, 2-yr., 9 to 12 ins.....	10.00	75.00
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12 to 18 ins.....	12.00	85.00
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White Dogwood, 2-yr., 12 to 18 ins.....	10.00	75.00
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Rosa multiflora, 2-yr.....	10.00	75.00
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Rosa rugosa, 2-yr.....	10.00	
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## ELLERY NURSERIES

Du Pont Parkway.....Smyrna, Del.

## QUALITY-GROWN STOCK

10,000 Ligustrum (Lindense Privet), 2-yr., 9 to 12 ins.....	\$12.00 per 100
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700 Viburnum dentatum, 3 to 4 ft., 60c ea.....	
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200 Viburnum dentatum, 2 to 3 ft., 45c ea.....	
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300 Viburnum dilatatum, 3 to 4 ft., 60c ea.....	
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160 Viburnum lantana, 4 to 5 ft., 70c ea.....	
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Willow, Hankow corkscrew: 100 4 to 5 ft.....	\$13.50 per 100
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150 4 to 8 ft., heavy.....	28.00 per 100
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90 10 to 12 ft., heavy.....	40.00 per 100
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## MOSES NURSERIES

Lima, N. Y.

## JAPANESE YEW

Spreaders, 18 to 24 ins.; uprights, 24 to 36, 100 5 to 6 ft., heavy branched, \$7.50 each, row-run. Add \$1.00 per plant for B&B.	
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MAGNOLIA SOULANGEANA, 150 4 to 5 ft., heavy branched, \$5.00 each, row-run. Add \$1.00 per plant for B&B.	
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## CUZZACRES NURSERY

205 Indian River Rd., Orange, Conn. Phone Sy 9-2267

## WHITE OAK LINERS

	Quercus alba, 3-yr., heavy, nursery-grown.	Per 100	Per 1000
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12 to 18 ins.....	\$ 8.00	\$ 75.00
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18 to 24 ins.....	11.00	100.00
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2 to 3 ft., lightly branched.....	13.50	125.00
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3 to 4 ft., lightly branched.....	20.00	175.00
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4 to 5 ft., lightly branched.....	25.00	225.00
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5 to 6 ft., lightly branched.....	35.00	300.00
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Free packing. Cash with order.

## HAGGERTY LANDSCAPE NURSERY

Lincoln 6, Neb.

## PODOCARPUS MAKI

(Fast-growing strain.)

	Per 100
--	---------

Seedlings, for 2 1/2-in. pots.....	\$ 4.00
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Pot-grown, 4 to 6 ins. tall.....	10.00
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Pot-grown, 7 to 9 ins. tall.....	12.00
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Pot-grown, 10 to 12 ins. tall.....	15.00
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Pot-grown, 13 to 18 ins. tall.....	25.00
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For quantities of 500 or more per shipment, less 10 per cent.

## PEARSON NURSERY

Box 477.....Plymouth, Fla.

200 Red Barberry, 24 ins., 40c.....	
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100 Viburnum dentatum, 24 to 30 ins., 40c.....	
--	--

200 Mt. Ash, 5 to 6 ft., 1/2 to 3/4-in. cal., \$1.25 each.....	
--	--

1500 Chinese Elm, 1 1/2 to 2-in. cal., \$1.25 each.....	
---	--

(Cheaper in large quantity.)

300 Regels Privet, 30 to 36 ins., 35c each.....	
---	--

Rathbun Nursery (Lyle Rathbun, Owner).

R. S. Coldwater, Mich.

## QUERCUS SHUMARDI

Oak seedlings, 2 yrs. old.

Best Red Oak. Deeply serrated leaves, very shapely tree for street or lawn planting.

15 to 18-in. seedlings.....	\$15.00 per 100
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18 to 24-in. seedlings.....	20.00 per 100
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24 to 30-in. seedlings.....	25.00 per 100
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3 to 4-ft. whips.....	30.00 per 100
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3 to 4-ft. branched.....	35.00 per 100
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Don't fail to order for spring 1958 delivery.

## FLORAL GARDENS NURSERY

Eaton, O.

## AMUR RIVER PRIVET

1-yr., 1 cane, 9 to 18 ins., \$25.00 per 1000.	
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## YELLOW WEEPING WILLOW

18 to 24 ins., \$6.50 per 100.	
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2 to 3 ft., \$8.00 per 100.	
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Concord Grape, 3-yr., \$15.00 per 100.	
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Terms: Packed free when cash accompanies order.

## PAUL'S NURSERY

Route 3.....Shelby, O.

## SURPLUS NURSERY STOCK

Scotch Pine, 6 to 8 ft.....	\$5.00 each
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Redbud, 6 to 8 ft.....	5.00 each
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Russian Olive, 8 to 12 ft.....	5.00 each
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At above prices, buyer digs.

1000 Norway Spruce, 2 to 6 ft.; 2000 Mugho Pine, 12 to 24 ins. Write or call for prices.	
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## KONARSKE NURSERY

24638 West Rd., Flat Rock, Mich. Phone Orlans 6-0555.

## SPECIMEN COLLECTED PIN OAKS

## NURSERY-GROWN NORWAY MAPLES

## HEAVY ROOTED CUTTINGS

Taxus, cuspidata, media hatfieldi.	
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Thuja occidentalis pyramidalis.	
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## BLODGETT NURSERIES

Perkasie, Bucks Co., Pa. Phone AL 7-6930

## EUONYMUS PATENS

Big leaf, heavy berry variety.

24 to 30 ins., 4 to 6 canes, bare-root, \$65.00 per 100, \$600.00 per 1000.	
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Potted liners, 2 1/2-in. pots, stocky, \$18.00 per 100, \$170.00 per 1000.	
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## BRUENING'S NURSERIES

## SHRUBS and TREES—Continued

CANADIAN HEMLOCK	100	1000
2-yr. seedlings, 3 to 6 ins.	\$ 5.00	\$25.00
2-yr. seedlings, 6 to 10 ins.	7.00	45.00
3-yr. seedlings, 9 to 12 ins.	10.00	...
3-yr. transplants	20.00	...
B&B, 15 to 18 ins., \$2.50 each.		
Sizes 10 to 15 ft. Prices on request.		
SOERGEL TREE SERVICE		
Hilltop 3-1051	Gibsonia, Pa.	

EUONYMUS VEGETUS		
12 to 15 ins., bare-root	\$1.00	
15 to 18 ins., bare-root	1.25	
18 to 24 ins., bare-root	1.50	
(Add 40c for B&B.)		
FRENCH NURSERY CO.		
Phone 5331	Clyde, O.	

2-YR. RED AND PIN OAK SEEDLINGS		
Red Oak, 15 to 24 ins., thick stemmed,		
\$60.00 per 1000. Pin Oak, 8 to 14 ins., \$40.00.		
ROBERT E. SMITH NURSERY		
R. D. 1,	Port Matilda, Pa.	

SHRUBS and TREES		
See our Classified ad in this issue under		
LINING-OUT STOCK.		
T. G. OWEN & SON, INC.		
Columbus, Miss.		

Quercus rubra (Red Oak), root-pruned,		
field specimens, 2 to 8-in. caliper.		
R. H. Rogers Nursery, Cooperstown, N. Y.		

## STRAWBERRIES

WHOLESALE BULK		
STRAWBERRY PLANTS		
F.O.B. Bristol, Ind.		

If you have your own cold storage facilities, our bulk price list will interest you. For large quantity quotation, please write.

JUNE BEARING	Per 1000	
*Blakemore	\$ 9.50	
*Dunlap	9.50	
*Robinson	10.00	
*Bellmar	10.00	
*British Sovereign	12.00	
*Catskill	12.00	
*Pocahontas	12.00	
*Premier	12.00	
*Sparkle	12.00	
*Tennessee Beauty	12.00	
*Armora	12.00	
*Empire	12.00	
*Fairfax	12.00	
*Fairfax Perfect (plant pat. No. 1442)	12.00	
*Vermilion	12.00	
*Crimson Flash	14.00	
*Paymaster (trade-mark)	14.00	
*Wisconsin 214	14.00	
*Jumbo (trade-mark)	20.00	

EVERBEARING		
*Gem	20.00	
*Superfection	20.00	
*Streamliner	22.00	
*Twentieth Century	28.00	
*Red Rich (plant pat. No. 993)	78.00	
Established retail prices on Red Rich: 12 plants, \$2.95; 25 plants, \$5.00; 50 plants, \$8.50; 100 plants, \$15.00; 500 plants, \$32.50; 500 plants, \$32.50; 1000 plants, \$120.00.		
*Grown from virus-free planting stock.		
JUDSON NURSERIES, INC.		
Phone 1-2945	Bristol, Ind.	

STRAWBERRY PLANTS		
For immediate or later delivery as desired.		
Leading varieties, as designated by (*) below, will be supplied from INDEXED VIRUS-FREE mother plants that were grown in our large greenhouse. The production of planting stock inside our greenhouse assures Buntings' customers of receiving plants that are substantially free of virus. Give your customers the best by making Buntings' your headquarters for your Strawberry requirements.		

JUNE BEARING	25	50	100	250	1000
*Albritton	\$0.65	\$1.10	\$1.75	\$3.90	\$12.00
*Armora	.60	.95	1.50	3.25	10.00
*Bellmar	.65	1.10	1.75	3.90	12.00
*Blakemore	.60	.95	1.50	3.25	10.00
*Dixieland	.70	1.20	1.85	4.10	12.50
*Empire	.70	1.20	1.85	4.10	12.50
*Fairfax	.70	1.20	1.85	4.10	12.50
*Fairland	.70	1.20	1.85	4.10	12.50
*Pocahontas	.70	1.20	1.85	4.10	12.50
*Redglow	.80	1.40	2.25	5.00	16.00
*Redstar	.70	1.20	1.85	4.10	12.50
*Robinson	.65	1.10	1.75	3.90	12.00
*Steelman	.65	1.05	1.65	3.50	11.00
*Surecrop	.80	1.40	2.25	5.00	16.00
*Temple	.60	.95	1.50	3.25	10.00
*Tenn. Beauty	.60	.95	1.50	3.25	10.00
EVERBEARING					
*Gem	.85	1.50	2.75	6.00	20.00
*Mastodon	.90	1.65	3.00	6.50	22.00
*Streamliner	.90	1.65	3.00	6.50	22.00
*Superfection	.85	1.50	2.75	6.00	20.00
Free packing for cash with order.					
BUNTINGS' NURSERIES, INC.					
Box 3	Seelyville, Del.				

## TAXUS

TAXUS CAPITATA		
Strong 2-yr. seedlings, seeds sown lightly,		
plants grown with plenty of room in beds.		
\$15.00 per 100, \$125.00 per 1000.		
C. HOOGENDOORN NURSERIES		
Turner Road	Newport, R. I.	

## QUALITY ROOTED CUTTINGS

These are made 8 ins. and are heavy cuttings with a wonderful root system.		
Per 100 Per 1000		
Taxus cuspidata	\$10.00	\$ 85.00
Taxus cuspidata capitata, tips	12.00	110.00
Taxus andersoni	11.00	100.00
Taxus sieboldi	11.00	100.00
Taxus hicksii	11.00	100.00
Taxus repandens	13.00	120.00
Taxus cuspidata, 1-yr., T.	17.50	...
2-yr., T.	25.00	...
3-yr., T.	30.00	...
Taxus cuspidata capitata, tips		
1-yr., T.	20.00	...
Cash with order earns free packing.		
We pay express charges on rooted cuttings.		
LINCOLN NURSERIES		
R. D. 2	Grand Rapids 4, Mich.	

LINERS IN TAXUS (YEWS)		
Extra heavy, 2-yr.-old, transplanted, field-grown, certified stock.		
Ship beetle zone, outside beetle zone.		
HATFIELDI, upright		
MOONII, upright		
HICKSI, upright		
CUSPIDATA CAPITATA, upright; from leaders		
CUSPIDATA, spring		
\$40.00 per 100, \$350.00 per 1000.		
3-yr.-old THAYERAE, spreading,		
3-yr.-old Densiformis, spreading,		
\$45.00 per 100, \$400.00 per 1000.		
Free packing. Sample on request.		
LARRY'S NURSERIES, INC.		
960 Reservoir Ave.	Cranston 10, R. I.	

TAXUS CAPITATA (YEW)		
Transplants, 4-yr., 10 ins. up,		
heavy, 60c each.		
THE HOME NURSERY		
Corliss Ingels	Fayette, Ill.	
Since 1887. On Route 17. In Stark County.		

TAXUS RED-GROWN		
BARE-ROOTED LINERS		
2-yr., 8 to 10 ins., \$35.00 per 100.		
Hatfieldi, capitata (top cuttings), cuspidata, hicksii, repandens, Moon's columnaris and cuspidata nana.		
SPLIT ROCK NURSERIES		
218 Farview Ave.	Parmus, N. J.	
Phone HU 9-4508		

TAXUS		
Heavy rooted, 8 to 8-in. cuttings.		
20,000 cuspidata	\$ 90.00 per 1000	
4,000 andersoni	100.00 per 1000	
3,000 hicksii	100.00 per 1000	
2,000 browni	100.00 per 1000	
Ready about June 1.		
50 per cent down, balance c.o.d.		
C. K. RIGGS NURSERY		
Painesville, O.		

HEAVY ROOTED TAXUS CUTTINGS		
20,000 Hicks	\$ 75.00 per 1000	
2,000 Hatfield	100.00 per 1000	
50,000 cuspidata	75.00 per 1000	
1000 white Dogwood, B&B, 2 to 3 ft., \$1.50 each; 1000 3 to 4 ft., \$1.85 each.		
CLARKSBURG NURSERY & CENTER		
Clarksburg, Ind.		

TAXUS CAPITATA		
15,000 seedlings, 3-yr., strong,		
the best we have seen,		
\$15.00 per 100, \$120.00 per 1000.		
Package free for net cash.		
COLE NURSERY CO.		
2004 W. Jackson	Painesville, O.	

TRITOMAS		
TRITOMA PFITZERI (RED-HOT POKER)		
No seedlings. True all fall blooming. The exclamation point of the garden.		
100 strong plants, \$15.00; 250 strong plants, \$30.00; 1000 strong plants, \$100.00. Larger quantities, ask for price.		
JOHN M. ELZINGA		
P. O. Box 142	Benton Harbor, Mich.	

VIBURNUMS		
VIBURNUM CARLESI		
Per 100 Per 1000		
2-yr. seedlings, 4 to 6 ins.	\$15.00	\$135.00
2-yr. seedlings, 6 to 8 ins.	20.00	175.00
2-yr. seedlings, 8 to 12 ins.	30.00	250.00
C. HOOGENDOORN NURSERIES		
Turner Road	Newport, R. I.	

Quick — Convenient — Cheap!		
Selling through the Classified Ads of the American Nurseryman.		
WANTED		
WANTED		
TO GROW NURSERY STOCK FOR RELIABLE FIRM.		
REASONABLE TERMS.		
IRRIGATION AND STORAGE AVAILABLE		
LORETTO BROS. FRUIT AND NURSERY FARMS		
P. O. Box 57	North Collins, N. Y.	

## SUPPLIES

## CANE STAKES

LIGHTNING SERVICE		
ON		
FRESHLY IMPORTED		
JAPANESE BAMBOO CANE STAKES		
from		
NEW YORK, CHICAGO, PORTLAND, ORE.		
Write for our competitive prices and generous quantity discounts.		
McHUTCHISON & CO.		
695 Grand Ave.	Ridgefield, N. J.	
2505 S. E. 11th Ave.	Portland 2, Ore.	

BAMBOO CANE STAKES		
For greenhouse and nursery purposes.		
All types and sizes.		
Write for prices and quantity discounts.		
ALEC HENDERSON, INC.		
1305 W. Randolph St.	Chicago 7, Ill.	

## FERTILIZERS

PETERS SPECIAL		
CONTAINER-GROWING FERTILIZERS		
All materials listed are ideal for container-growing purposes.		

SOLUBLE FERTILIZERS		
21-7-7 Azalea Neutral (non-acid forming)		
21-7-7 Azalea Acid (heavy acidifying action)		
Both above, \$6.50 per 25-lb. bag.		
\$22.00 for 4 25-lb. bags.		

20-20-20 General Purpose Feed		
\$7.00 per 25-lb. bag, \$24.00 for 4 25-lb. bags.		
LONG-LIFE FEEDS		
13-6-6 Organic Special Du Pont Uramite		
Nitrogen and highest grade natural organics. The finest long-life dry feed. Unexcelled for containers.		
\$7.50 per 25-lb. bag, \$28.00 for 4 25-lb. bags.		
Du Pont Uramite, 38 per cent nitrogen from methyl-urea, \$12.00 per 50-lb. bag.		
Also available: Chelated Iron, Chelated Trace Element Complexes, Fritted Trace Elements, etc.		

FRITTED POTASH		
Contains 32 per cent K <sub>2</sub> O, plus fritted trace elements. Will not leach away. Gives 6 to 9 months' assured supply of Potash, regardless of leaching rain or heavy watering. \$9.00 per 25-lb. bag; \$8.00 per 25-lb. bag for 4 to 20 bags.		

Write for complete price list.		
Freight prepaid, east of Mississippi, on all orders totaling 300 lbs. or more of above materials. Less than 300 lbs., F.O.B. Allentown, Pa.		
ROBERT B. PETERS CO.		
739 North 7th St.	Allentown, Pa.	

Classified Ads Offer Maximum Results at Minimum Cost.		
FLATS		
CYPRESS FLATS		
Shipped from Williamston, N. C.		
WHITE CEDAR FLATS		
Shipped from Cook, Minn.		

Order by No.	Price Per	Cy-Cedar press	Cy-Cedar press
		Wt. Per	Wt. Per
		100	100
No. 1, 14x20x3 1/4-in.-in.	\$27.00	320	400
No. 2, 14x20x3 1/4-in.-in.	31.50	400	500
No. 3, 12x16x2 1/4-in.-in.	20.75	260	325
No. 4, 12x16x2 1/4-in.-in.	24.50	275	345
No. 5, 14x16x3 1/4-in.-in.	23.25	275	345
No. 6, 14x16x3 1/4-in.-in.	27.50	290	365
No. 7, 15x22x3 1/4-in.-in.	30.75	380	475
No. 8, 15x22x3 1/4-in.-in.	35.50	425	535
No. 9, 11 1/4x22x3 1/4-in.-in.	25.00	320	400
No. 10, 11 1/4x22x3 1/4-in.-in.	29.00	400	500
No. 11, 14x16x5-in.-in.	32.75	450	560
No. 12, 5x11x5-in.-in.	16.75	160	200
No. 13, 5x11x5-in.-in.	19.00	215	270
Plant boxes, 5x8 1/2x2-in. 5.50	45	60	
Skeleton flats to carry TEKPAKS and similar growing containers. (Write us for price list.)			

All other sizes quoted on request.		
Above prices apply to both Cypress and Cedar.		
5 per cent discount on orders of 1000 or more; 10 per cent discount on carloads of 30,000 lbs. or more.		

The above sizes are inside measurements. Bottoms and sides are 1/4-in. thick and ends are 1/2-in. thick. All material surfaced on one side.		
Your name and address printed, up to 3 lines in black ink, on one or both end pieces at the following rates: \$1.00 setup charge, plus 1/4c per end piece for the first 1000 ends; 1/8c per end thereafter.		

Write inquiries and orders for White Cedar flats to Cook, Minn., and for Cypress flats to Williamston, N. C.		
Shipped knocked-down in units of 25. F.O.B. mills. All shipments by truck unless otherwise specified. Attach check. Order by number, especially if by telegram.		

H. C. HILL & SONS		
Manufacturers of flats, boxes, wood turnings and specialties.		
Phone North 6-3348 Cook, Minn.		
Phone Swift 2-4127, Williamston, N. C.		



**REDWOOD FLATS, K.D.**  
Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure. \$38.00 per 100.

1x1-in. Cypress stakes, pointed.  
50 pcs. to bundle, 4 ft., \$3.50 per bdl.  
50 pcs. to bundle, 6 ft., \$4.50 per bdl.  
50 pcs. to bundle, 8 ft., \$5.50 per bdl.  
Ship same day. Cash with order, please.  
YOH & HOOKER, YOUNGSTOWN 2, O.

### FLOCKING SUPPLIES

**FLOC-FLO**  
Supplies, equipment  
and free "How to Do It."  
**FLOC-FLO ENGINEERING DESIGN**  
5802 Olson Highway Minneapolis, Minn.

### HUMUS

15,000 yds. high-grade humus, \$6 per cent organic, 6.5 pH. Already mound. Ideal to package in plastic bags. Big profits. All you need is a small pickup truck. Fine opportunity for ambitious person. No money needed to start in business. Every road stand and super market is a potential buyer. I'm practically giving it away. Act quickly.  
H. J. Monetti, Alphano Rd., Great Meadows, N. J. Phone MErcury 7-2618.

### LABELS

**DAHLIA OR TREE LABELS**  
Priced per carton  
Plain Painted  
3 1/2 x 1/2 ins., notched, not wired, \$3.00 \$5.50  
3 1/2 x 1/2 ins., wired (copper) .. 3.95 4.90  
**POT LABELS**  
4x 1/2 ins. (cartons 1000 each) .. 3.95 4.60  
5x 1/2 ins. (cartons 1000 each) .. 4.30 5.10  
6x 1/2 ins. (cartons 1000 each) .. 4.70 5.50  
Priced per carton  
Plain Painted  
8x 1/2 ins. (cartons 500 each) .. \$3.60 \$4.30  
10x 1/2 ins. (cartons 500 each) .. 4.20 5.10  
**GARDEN STAKES**  
8x 1/2 ins. (cartons 250 each) .. 3.00 3.60  
10x 1/2 ins. (cartons 250 each) .. 3.30 3.90  
12x 1/2 ins. (cartons 100 each) .. 2.00 2.40  
Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.  
Catalog on request.  
"We ship same day."  
YOH & HOOKER, YOUNGSTOWN 2, O.

More customers for you!  
Over 9,500 subscribers, all active buyers, see your ad in the American Nurseryman.

### ORCHID SUPPLIES

**IVORY ORCHID BARK**  
For potting all Orchids.  
1-cu. ft. bag, \$2.15; hobby bag, 65c.  
2-cu. ft. bag, \$3.75; prof. bag, \$1.85.  
3-cu. ft. bag, \$5.00.  
100-lb. bag, Hoof and Horn Meal, \$14.50.  
All prices F.O.B., subject to change without notice.  
List of ORCHID SUPPLIES upon request.  
WRIGHTWOOD FLORAL CO., INC.  
1420 Wrightwood Ave. Houston 9, Tex.

Surplus Stock  
can be easily and quickly turned into  
Cash  
by listing it in the  
American Nurseryman Classified Ads

### PLANT TUBS

**REDWOOD TUBS**  
WITH SOLID COPPER BANDS  
8x 7 1/2 lbs. .. \$1.70 18x15, 9 1/2 lbs. .. \$4.45  
10x 9, 3 1/2 lbs. .. 1.95 20x16, 12 1/2 lbs. .. 6.00  
12x11, 5 lbs. .... 2.40 22x17, 15 lbs. .... 7.00  
14x12, 6 1/2 lbs. .. 2.90 27x19, 18 lbs. .... 9.00  
16x13, 8 1/2 lbs. .. 3.45  
Coaster, 10x10, with plastic bowl, 2 1/2 lbs. 2.65  
Coaster, 13x13, with plastic bowl, 3 lbs. .... 2.75  
Coaster, 20x20, with plastic bowl, 7 lbs. .... 5.00  
Coaster, 12x12, no bowl, 3 lbs. .... 2.50  
Coaster, 19x19, no bowl, 6 lbs. .... 3.50  
Write for color catalog sheet.  
Freight prepaid, orders of 100 lbs. or more.  
**GARY WOOD PRODUCTS**  
130 Neil Memphis, Tenn.

### UTILITY PLANT TUBS

Nurserymen's all-purpose tub, made from sturdy New England White Pine. Popular sizes, in green, white and white with gold bands.  
F.O.B. N. H. or Chicago.  
Complete listing and quantity discounts on request.  
Sole Distributor,  
**ALEC HENDERSON, INC.**  
1305 W. Randolph St. Chicago 7, Ill.  
**CALIFORNIA REDWOOD OCTAGON TUB**  
DeLuxe Model  
The finest of California's Redwood, it's beauty enhanced by copper-coated brass bands, makes this a really DeLuxe MODEL for indoor and outdoor use, and a size for every purpose.  
Write for complete listing.  
Quantity discounts offered.  
**ALEC HENDERSON, INC.**  
1305 W. Randolph St. Chicago 7, Ill.

### PLASTIC FILM

**POLYETHYLENE FILM**  
Sun-resistant black for mulching. .0015 mil.  
3 ft. x 500 ft. .... \$ 7.70 per roll  
3 ft. x 1000 ft. .... 15.40 per roll  
Natural transparent only.  
.002 mil., all rolls 200 ft. long.  
4 ft. 2 ins. x 200 ft. .... \$ 6.00 per roll  
4 ft. 4 ins. x 200 ft. .... 12.00 per roll  
Natural transparent and sun-resistant black.  
.004 mil., all rolls 100 ft. long.  
3 ft. x 100 ft. .... \$ 5.00 per roll  
4 ft. x 100 ft. .... 7.00 per roll  
6 ft. x 100 ft. .... 11.00 per roll  
8 ft. x 100 ft. .... 15.00 per roll  
Minimum order 4 rolls. Write for low prices in quantity orders.  
Other sizes and mil. weights available up to 40 ft.  
Phone Baldwin 3-8277.  
**DAYTON NURSERY AND GARDEN SALES**  
P. O. Box 763 Dayton 1, O.

**POLYETHYLENE FILM**  
Natural transparent, made from Du Pont Alathon, the amazing film for greenhouses.  
.004 mil., all rolls 100 ft. long.  
3 ft. wide by 100 ft. long. .... \$ 6.00 per roll  
4 ft. wide by 100 ft. long. .... 8.00 per roll  
6 ft. wide by 100 ft. long. .... 12.00 per roll  
8 ft. wide by 100 ft. long. .... 16.00 per roll  
Other sizes available up to 20 ft. wide.  
Send \$1.00 for liberal sample,  
4 ft. x 10 ft., postpaid.  
Special deal for greenhouse construction.  
5 rolls to 9 rolls, 25 per cent discount.  
10 rolls or more, 33 1/2 per cent discount.  
"We ship same day."  
**YOH & HOOKER**  
520 Williamson Ave. Youngstown 1, O.

**POLYETHYLENE FILM**  
2 mil. in 200-ft. rolls, 36 ins. wide, \$5.96;  
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4 mil. in 100-ft. rolls, 36 ins. wide, \$6.18;  
54 ins. wide, \$9.12; 126 ins. wide, \$20.20.  
5 rolls, less 10 per cent; 10 rolls, less 20 per cent. Also wider widths available.  
We pay freight if check is with order.  
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**NO. 1 SPHAGNUM MOSS**  
Large burlap bales, long fibered, clean, firmly packed; bale, \$1.25.  
**JOSEPH JAMROS, CITY POINT, WIS.**  
Fresh, clean sphagnum moss, write or phone City Point 123 for our low prices on wire-bound bales in truckloads or carlots.  
Pure Sphagnum Moss Co., City Point, Wis.  
Long-fibered sphagnum moss, also ground moss. Price us on truckloads delivered.  
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50 pieces to bundle.  
1x1-in.—3 ft., pointed ..... \$3.00 per bundle  
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These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than seems necessary."  
**WE SHIP SAME DAY!**  
**YOH & HOOKER**  
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**STAKES, GALVANIZED HARD STEEL**  
GALVANIZED tree guying WIRE,  
HOSE for guy wire FADDING.  
Prices and samples sent on request.  
**SCHUPP SUPPLY CO., WILMETTE, ILL.**

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Descriptive book circulars available on request.  
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Please tell me how I may obtain a sprayer on FREE LOAN. This request does not obligate me in any way.

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1. Landscape architect and salesman.
2. Assistant manager for sales at garden center.
3. Nursery superintendent and maintenance man.
4. Landscape foreman.

All above men must be experienced and above average in initiative, ambition and workmanship. Good salary; permanent, immediate employment. Give full details and send photo in first letter.

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Nationally prominent wholesale fruit and vegetable distributor needs man to take charge of flower department; initiate supplies, promote distribution and merchandising flower sales and related items on national scale. Real opportunity in progressive organization for qualified man under 35. Must have sales ability, good health; be bondable, willing to travel. Write stating qualifications such as prior employment record, schooling, marital status and salary requirements. Write Box 491, care of American Nurseryman.

## HELP WANTED

Nursery foreman, capable of digging orders, propagating nursery stock and waiting on customers. Location Long Island. Write stating qualifications and salary. Write Box 498, care of American Nurseryman.

## HELP WANTED

Elderly retired man to be garden consultant in garden center. Put a lifetime of knowledge to work for you and us.

**GARDNER'S VILLAGE, INC.**  
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**HELP WANTED**—Representatives. Aer-O-Jet, a new line of water-operated aerifiers for lawns and gardens, seeks representatives for placing products with garden supply jobbers and retailers. Items sell retail for \$7.95 to \$14.95 and carry standard trade discounts. Representatives' commission is 10%. Exclusive territories available. Write us what lines you now represent and territory you cover. **YOUNG INDUSTRIES**, 2233 Roosevelt Ave., Redwood City, Calif.

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Fill orders, purchase stock, care for small nursery.

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Must be able to read plans, supervise planting crew.

The above positions are with large landscaping firm in north-eastern Ohio. Please furnish references and experience in first letter. Immediate placement.

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### EXPERIENCED NURSERYMAN

Must be capable of taking complete charge of all propagation and all phases of growing of general nursery stock on 100-acre wholesale nursery in New York area. Modern house on premises. Write giving full particulars, experience and salary expected. All replies held strictly confidential. Write Box 489, care of American Nurseryman.

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Nursery business in outstanding location, with or without novelty store; also with or without acreage, cleared and wooded. Long or short-term lease. Store and nursery well-stocked. Can arrange long-term financing for stock if buyer has suitable property anywhere in U. S. to offer as collateral. Send for list of over 100 other businesses and properties.

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**SITUATION WANTED** — Married man seeks permanent position. Goal is to carry out landscape plans and become foreman. Reared on nursery in Michigan. Prefers slightly warmer climate and longer seasons. Took American Landscape School course. Experienced in pruning, B&B and small crews. **R. J. LUCKHARD**, Rt. 1, Box 266, Broken Arrow, Okla.

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Patent and manufacturing rights for the Phillips Power Sod Cutter, machinery and stock, only \$14,000. Also sodding equipment cheap.

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Rt. 12 Lafayette, Ind.

## FOR SALE

Wholesale-retail nursery in medium-sized northern California town. Cash for inventory. 29 per cent down for real property. All equipment and personnel available. Long established. A-1 customer list. Owner retiring. Write Box 495, care of American Nurseryman.

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W-W shredder with conveyor. 50-gal. sprayer, Lauson, 250-lb. pressure. 4-ft. cut, chain power saw. Exchange for liners, Colorado blue spruce, taxus.

**BURMAK NURSERY**  
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Phone: PE 7-4060

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Holland, 2-row, self-propelled mechanical nursery stock transplanter. Purchased new 1954, used 1 week, like new. Plants seedlings, bare-root liners, 2½-inch pot plants. Original cost \$680.00. Will sell \$340.00 F.O.B.

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**FOR SALE**—Nursery and florists' business. Continuous ownership for over 35 years. Within city limits. No competition in large county. Good residence on place. Physically unable to continue. **WHITE'S NURSERY & FLORIST**, Meeker, Colo.

## CALIFORNIA NOTES

[Continued from page 93]

of a horse chestnut on the grounds of the Palo Alto Lawn Bowling Club under the direction of the Palo Alto parks department, and the planting of a willow at the Girl Scout Hall, Mountain View, under the direction of the Brownie troops there.

California economists feel that since employment has increased rather than decreased; since the population of the state continues to increase at the rate of about 50,000 to 60,000 per month; since new car registrations were higher by about 10,000 in February, 1958, than they were in February, 1957, and since sales taxes this year to date are ahead of those of a year ago, no depression can be long nor severe.

Douglas Baylis, landscape architect and designer of the San Mateo county fair and floral fiesta, returned recently from Athens, Ga., where he worked with faculty members and students at the University of Georgia in a city planning project, which was a class problem for the students there.

Water-conscious Californians are interested in a report made at a legislative hearing by Prof. Leroy A. Bromley, of the department of chemical engineering at the University of California. In his report, Dr. Bromley advises that he has developed a pilot plant capable of converting sea water into fresh water at a cost of about 35 cents per 1,000 gallons.

California forestry and lumber companies have ordered from the division of forestry nearly 200,000 timber tree seedlings. This is an increase of nearly 25 per cent over last year's orders.

California producers of Christmas trees are being advised that Monterey pine, jack pine, Austrian black pine, Scots pine, Arizona cypress and Japanese red pine can be grown successfully for that purpose on hills and other less valuable land at a profit to the grower.

All during March the Toichi Domoto Nursery, Hayward, held an open house and flower show. Mr. Domoto reports satisfactory results, though the bad weather held the attendance down.

The O. H. (ornamental horticulture) alumni of Cal Poly held their March meeting at Sabbella's Fish Grotto on Fisherman's wharf, San Francisco, March 21.

Larson's Marsh Road Nursery, Menlo Park, advertises that it is converting to a self-service operation. All walks in the retail sales area have been paved, and every plant offered for sale is labeled with its



Unretouched picture of Roeland de Wilde III and his ingenious Vapam® applicator at work at the Rhodo-Lake Nurseries, Shiloh, N.J.

## Vapam Soil Fumigant Must Be Good To Inspire A Rig Like This

Why else would anyone take a perfectly good rototiller and convert it into a special rig for applying Vapam?

Simply because this very *special* soil fumigant wipes out sub-surface parasites so effectively — at such reasonable costs per acre.

In nurseries and new orchard sites, in commercial seed beds and large acreage planted to vegetables, Vapam controls weed-seeds, fungi, nematodes, club root and other soil-borne diseases. It penetrates the soil deeply . . . leaves it *clean* as a whistle.

Vegetables, ornamentals, nursery stock and young fruit trees grow *stronger* in clean soil . . . yield richer harvests, bigger profits.

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Commercial growers can apply Vapam with a rototiller, bedder or injector. You can even introduce Vapam into most irrigation systems.

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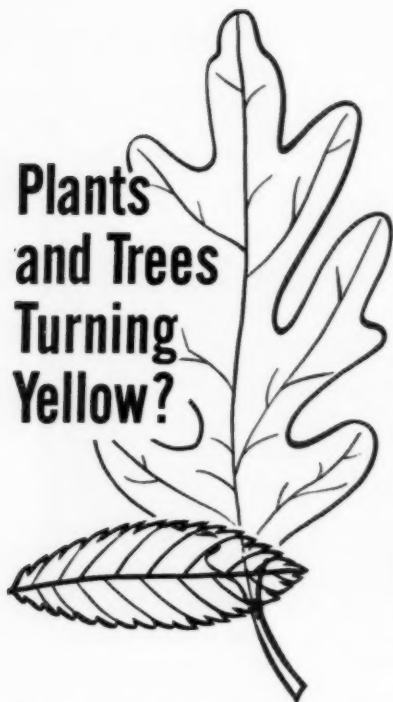
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## Plants and Trees Turning Yellow?



## Control Iron Chlorosis with GREENZ® 26

Now you can turn chlorotic yellow leaves green; prevent premature falling of leaves; restore vitality to iron-deficient plants and trees . . . all in a matter of a week or two!

Simply apply GREENZ 26, an iron complex made from a natural product — wood. Unlike synthetic iron chelates, it has caused no burning of leaves or fruit.

We want you to try this remarkable new agricultural chemical and convince yourself of its value. Send coupon below for sample and application instructions.

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Send trial sample of GREENZ 26 and instructions for its use.

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 **CROWN ZELLERBACH**

common and technical names, as well as its cost. Carts for the buyers are provided, and the sales area is all under a lath cover. Signs are prominently posted around the nursery asking buyers and browsers to make any suggestions for improvement of the service and to feel free at all times to "ask for expert advice from our trained horticulturists."

The California Association of Arborists has republished its manual on proper servicing of trees and has issued a list of procedures which it considers malpractice. It has also issued an arborist's creed which it has requested all of its members to post in a prominent place so that it may be seen regularly by the employees. Millard F. Blair, Mountain View arborist and tree surgeon, is author of the creed.

The Davis Tree Service, Menlo Park, has discontinued its tree pruning services and is devoting full time to home and commercial nursery spraying service. To attract homeowners, the nursery advertises a garden consultant service.

The theme for the 24th annual San Mateo county fair and fiesta, August 1 through 9, has been announced as "Our Heritage." Tracing the varied elements in the heritage of California horticulture—Spanish, Mexican, Italian, English, French, Chinese and Japanese—and relating them to the present should make the fiesta more colorful than ever before.

With heavy rains a daily event during the past few weeks, the retail salesyards of the ornamental nurserymen are bare of buyers and full of plants of all kinds. Bedding plants in flats are almost a complete loss, bare-root plants are sprouting to such an extent that canning is required and sales of garden supplies are almost at a standstill. Diseases are beginning to affect the commercial fruit plantings, which could not be sprayed, as well as plants in home gardens. The rainfall is well ahead of the average for the past 47 years, however, and has beneficial effects in that water tables are being restored, salt is being diluted or pushed back and ground that has been somewhat dry for many years is getting well soaked. W. B. B.

FORMATION of the Burns Landscape Service & Nursery Center at Sheldon, Ia., has been announced. The proprietor has been an employee of the Sherman Nursery Co., Charles City, Ia., for the past 11 years, and the new firm will handle Sherman stock and carry on landscape contracting in northwest Iowa.

## FLEX-O-TRELL

**... NEW ALUMINUM FOLDING TRELLIS**

adjusts to any size up to eight feet. Treated finish looks like white paint, never needs re-painting.

*Use* **FLEX-O-TRELL**

as rose or vine trellis, yard fence, walk edging for patios or as porch gate. Adds smartness and utility to any home.

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- Drainage** The side-drainage feature makes waterlogging impossible while standing in salesyard.

<b>Size 0</b> Top . . . 4 ins. Bottom 3 1/2 ins. High . . . 4 ins. Weight per 100 Regular 10 lbs., Heavy 25 Regular Weight Price 100..\$2.75 1000..\$25.00 Heavy Weight Price 100..\$3.75 1000..\$35.00	<b>Size 0 1/2</b> Top . . . 5 ins. Bottom 4 ins. High . . . 5 ins. Weight per 100 Regular 15 lbs., Heavy 30 Regular Weight Price 100..\$3.50 1000..\$32.50 Heavy Weight Price 100..\$4.50 1000..\$42.50	<b>Size 1</b> Top . . . 6 ins. Bottom 5 ins. High . . . 6 ins. Weight per 100 Regular 15 lbs., Heavy 35 Regular Weight Price 100..\$4.00 1000..\$37.50 Heavy Weight Price 100..\$5.25 1000..\$50.00	<b>Size 2</b> Top . . . 7 ins. Bottom 5 1/2 ins. High . . . 7 ins. Weight per 100 Regular 24 lbs., Heavy 55 Regular Weight Price 100..\$4.50 1000..\$42.50 Heavy Weight Price 100..\$5.75 1000..\$55.00
<b>Size 3</b> Top . . . 8 1/2 ins. Bottom 6 1/2 ins. High . . . 9 ins. Weight per 100 Regular 30 lbs., Heavy 70 Regular Weight Price 100..\$5.00 1000..\$47.50 Heavy Weight Price 100..\$6.25 1000..\$60.00	<b>Size 4</b> Top . . . 10 ins. Bottom 8 ins. High . . . 10 ins. Weight per 100-120 lbs. 100..\$11.00 500..\$52.50 1000..\$100.00 *Heavy Only— For trees and shrubs.	<b>Size 5</b> Top . . . 12 ins. Bottom 10 ins. High . . . 12 ins. L.G. POT Weight per 100-250 lbs. 20..\$30.00 100..\$27.50 500..\$125 1000..\$225 *Special for extra-heavy trees and large shrubs.	<b>Size Pan</b> Top . . . 8 1/2 ins. Bottom 7 1/2 ins. High . . . 5 ins. PAN Weight per 100 Regular 30 lbs., Heavy 70 Regular Weight Price 100..\$5.00 1000..\$47.50 Heavy Weight Price 100..\$6.25 1000..\$60.00

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<b>NEW JERSEY</b>	New Yorker Bag & Burlap Co., 651 Marshall St., Elizabeth, N. J. Somerset Rose Nursery, Inc., New Brunswick, N. J.
<b>MICHIGAN</b>	Michigan Bulb Co., 845 Ottawa, N.W., Grand Rapids, Mich. Growers Exchange, Inc., P. O. Box 397, Farmington, Mich. Strickland Seed Store, 1429 Gratiot Ave., Detroit, Mich.
<b>RHODE ISLAND</b>	American-Dutch Trading Co., Inc., 47 Coddling St., Providence, R. I.
<b>CANADA</b>	The Sheridan Nurseries, Ltd., Sheridan, Ontario, Canada.

500 of a size takes 1000 rate in sizes 0-0 1/2-1-2-3-Pan. Regular-weight pots packed 100 and 200 per carton in sizes 1-2-3-Pan. Size 0, 250 only. Size 0 1/2, 200 only. Heavy pots are packed 250 per carton in size 0; 100 per carton in sizes 0 1/2 and 1; 50 per carton in sizes 2, 3, Pan and 4, and 20 per carton in size 5. NO BROKEN CARTONS.

SEND \$1.00

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## SPRING FLOWER SHOWS

[Continued from page 10]

plantings of tropical flowers and foliage. A simulated washed beach front was in the foreground, with three huge coconut palms in back of the hut and one in the left foreground. Attention getters were a talking crow and a macaw.

Summit Hall Turf Farm, Gaithersburg, Md., was given a first-place prize for a formal green area that was gently sloping in the foreground and centered by two brick steps. Boxwood plants were used in the background in combination with a large dogwood tree and underplanted with white azaleas and hyacinths.

Conard-Pyle Co., West Grove, Pa., received an award for four formal rose gardens, one on each side of a main aisle, with washed white gravel paths used to emphasize the vivid color tones of the firm's new and proved varieties.

Special awards for educational exhibits were given to the University of Maryland, College Park, for a

## SHRUBS AND VINES FOR AMERICAN GARDENS—by Dr. Donald Wyman

Planting list guide for nurserymen. Recommends over 1100 species and varieties, with secondary list of 1700. Over 100 illustrations.

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velocity mist to 25 ft. stream . . .

1 1/2 HP, 4 cycle gasoline engine . . . truly

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display of broad-leaved evergreens for home landscaping, and to the research service of the United States Department of Agriculture, for a display of its educational and research objectives.

### BOSTON SHOW

The 87th New England spring flower show was held at Boston, Mass., March 9 to 15. Brilliant sunshine together with record crowds welcomed the annual event. By 12 o'clock noon Sunday, March 9, there were lines formed outside Mechanics building, scene of the event. Oliver Wolcott, president of the Massachusetts Horticultural Society, officially opened the show at 1 o'clock. It required several hours to process the throng awaiting admittance.

The first scene that met the viewers was a rock garden by Alexander I. Heimlich, Woburn. This consisted of three large ledges colorfully planted with alpiners, dwarf material, complete with triple waterfall. A generous lawn approach made it possible to view this garden from all angles. The exhibit was awarded a gold medal, first prize and special commendation for a naturalistic composition and wise use of material.

Cherry Hill Nurseries, West Newbury, presented an informal planting for which it won a silver medal and first prize. This depicted an approach to a house with a flagstone terrace. The path was lined with *Juniperus pfitzeriana*. The terrace was lined with *Taxus hatfieldi*, and featured were rhododendrons, including azaleas.

An informal garden by the Kelsey-Highlands Nursery, East Boxford, was composed of a natural planting of mountain laurel, evergreens and ground cover plants; there were also a small brook and pool. *Kalmia latifolia* and Carolina rhododendrons were in evidence in the display, which was awarded a gold medal, first prize and special commendation for simplicity and restraint.

### Industrial Planting

Littlefield-Wyman Nurseries, Abington, were awarded a silver medal and first prize for an industrial planting, complete with concrete block patio, tall dogwoods and pine and an underplanting of Carolina rhododendrons.

Breck's of Boston (designer John L. Russell) featured Chinese crab apples, dogwood, *Azalea schlippenbachii* and beds of tulips in a display that won a gold medal and first prize.

One of the features of the show was the garden by Marinus Vander

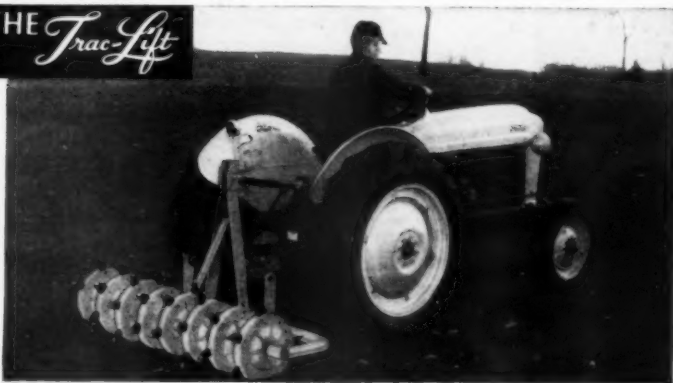
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### NEW SOIL-AIRE PRODUCTS



A new pull-type aerating and cultivating machine that can be attached to any 2 h.p. or up garden tractor. Will cover an acre an hour and can be adjusted 1-2-3 inches in depth. Gets air, moisture and fertilizer down to the roots.

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A self-transporting, cultivating, renovating and aerating machine for Ford-Ferguson, International 300 and other hydraulic lift tractors.

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pink  
yellow  
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Pol, Fairhaven. It was an informal New England garden featuring tree peonies, yew hedges, a flagstone path interplanted with grass and a simulated large pine. This informal garden won a gold medal, first prize and the gold medal certificate of the Pennsylvania Horticultural Society.

A seashore planting by Bay State Nurseries, Inc., North Abington, depicted a garden, a woodland path and the ocean, with the rising sun in the distance. The planting was suitable for a home on the coast. This exhibit won a silver medal and first prize.

An educational exhibit by the Arnold Arboretum, Jamaica Plain, was awarded a gold medal, first prize and the Beatrix Farrand silver bowl for the best exhibit of rhododendrons in the show. There was depicted a garden tool house complete with fertilizer, shears, plastic covering and examples of cultural methods.

### Most Meritorious Exhibit

California mission garden, staged by the Massachusetts Horticultural Society under the direction of Harold D. Stevenson, landscape architect, Rockland, was awarded the president's cup for the most meritorious exhibit in the show, and it also won a gold medal and first prize. This dis-

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play was a composite of the famous California missions, complete with bell tower, old burial ground and cloister corridor. The planting consisted of authentic material from that area.

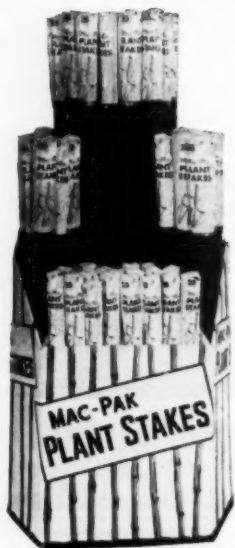
F. I. Carter & Sons, Tewksbury, depicted Ramona's well, surrounded with a planting of cacti and succulents. The Carter exhibit was in two sections, one on either side of the

California mission garden. These sections were staged under the direction of Fred Carter. The exhibit won a silver medal and first prize.

The Old Colony Landscape Service, Weymouth, exhibited a patio garden which consisted of a path through azaleas and pine and a huge white dogwood tree. The garden was awarded a gold medal and first prize.

An informal garden, with a blue-

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stone terrace, a low stone wall, a planting of trees and shrubs and a pool and fountain, was staged by Arthur Leiby's Nursery, Weston. This also was awarded a gold medal and first prize.

In the midst of the trade section the visitor was treated to a view of climbing and hybrid tea roses. This display was set up by the Brownell Rose Co., East Providence, R. I.

Jean Thibodeau, Woburn, displayed a garden in an informal setting, depicting a hillside with a collection of miniature bulbs, such as scillas, anemones, narcissi and daffodils. It won a bronze medal and first prize.

### PHILADELPHIA SHOW

A 4-acre arena of brilliantly hued flowers, gardens and shrubbery was almost eclipsed by the thousands of Philadelphians and out-of-town visitors who crammed the aisles of the Commercial Museum at the 31st annual Philadelphia flower show, which opened March 10 and closed March 15. By the end of the week, approximately 100,000 persons had viewed and photographed the floral attractions valued at more than \$1,000,000.

The show was opened by Mrs. Richardson Dilworth, wife of the mayor of Philadelphia, as she cut a floral ribbon strung across the main aisle of the huge auditorium. The floral event is sponsored annually by Philadelphia Flower Show, Inc., which is an organization of local florists, seedsmen and nurserymen, and the Pennsylvania Horticultural Society.

This year, "Shangri-La," a man-made mountain top, dominated the center of the exhibit hall. The display was an island of ethereal beauty that featured some 200 large-flowered rhododendron plants. These plants had been selected from west coast nurseries last fall and shipped east early last December in heated trailers. An 8-week-long forcing period began in early January.

The flowers were in shades of white, lavender, pink, purple and red. Accents to the 5,000 square foot haven were several 25-foot blue cedar trees that stretched to the rafters of the hall. Light pink Japanese crab apple trees, white and yellow primroses, lavender heather and masses of pink azaleas were used as a background for this outstanding collection of rhododendrons.

### Wins Trophies

"Shangri-La" was sponsored by the Scott Horticultural Foundation, of Swarthmore College. Harry Wood, of the foundation, was assisted by

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William H. Frederick, Jr., of Mill-creek Nursery, Newark, Del., the designer of the island, and Harry Rhoads. The exhibit won one of the governor's trophies, and the Bulkeley medal presented by the Garden Club of America. Mr. Frederick also received a gold medal.

A touch of the tropics was brought to the show by the exotic displays of orchids in the aisle of orchids.

Conard-Pyle Co., West Grove, Pa., received a silver medal for a 1,000 square foot rose garden and won the Weston trophy for miniature roses.

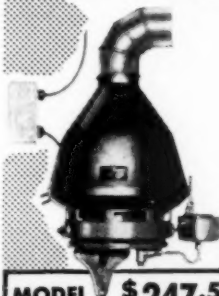
Albrecht's Nurseries, Inc., Narberth, Pa., displayed a 1,600 square foot outdoor living room, consisting of an 18x18-foot roofed flagstone patio with a lawn and planting of flowering trees and shrubs. Barbecue facilities and a weeping willow beside a fountain and pool completed the exhibit, which won a silver medal.

Styer's Nurseries, Concordville, Pa., gained a first award and a silver medal for a 1,600 square foot southern garden, featuring camellias.

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Inc., Gladwyne, Pa., for an 800 square foot woodland garden.

Firsts for other 800 square foot exhibits went to Fischer Greenhouses, Linwood, N. J., for a display of azaleas in bloom; the Pennsylvania Nurserymen's Association, for a spring garden; Judd's Hollylan Nurseries, Pitman, N. J., for an outdoor lounge; Hansen Bros., Narberth, Pa., for a suburban garden; Whitmarsh Nurseries, Whitmarsh, for a contemporary outdoor planting, and Rose Valley Nurseries, Media, for a country home garden.

Walter Pitzonka, Pitzonka's Pansy Farm & Nursery, Bristol, Pa., received a first prize on a 400 square foot spring garden that featured hybrid pansies measuring four or more inches across.

Edward Bienecke won a gold medal for rhododendrons. First prize for azaleas in bloom, covering not less than 500 square feet, went to Deerfield Nurseries, Deerfield, N. J.

A presentation of about 80 kinds of drug plants attracted attention. The exhibit was staged by Dr. John M. Fogg, Jr., director of the Morris Arboretum and professor of botany at the University of Pennsylvania.

### CLEVELAND SHOW

The 15th annual Greater Cleveland home and flower show opened in the Cleveland, O., Public Auditorium Saturday, March 1, to provide a 9-day preview of spring for Clevelanders as well as the many thousands of spectators who attended from other sections of Ohio and from Pennsylvania and Indiana. Attendance totaled 200,000.

This yearly event is sponsored by the Greater Cleveland Home & Flower Show, Inc., a nonprofit civic organization. Henry Pree, landscape architect and garden editor of the Cleveland Press, was again the designer of the main floor layout. The theme of the 1958 show was "Early American."

The competitive gardens, divided into three classes, covered almost an acre on the main arena floor. Those in the large garden class covered 1,100 square feet, the medium garden class 800 square feet and the small garden 450 square feet. The plantings were designed to provide ideas for city and suburban gardeners.

Judging the competitive gardens were Vincent E. De Petris, of De Petris Florist, Inc., Grosse Pointe, Mich.; Prof. Victor H. Ries, of the Ohio State University, Columbus, O., and Prof. Donald P. Watson, of Michigan State University, East Lansing. Judging took place March

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1, before the formal opening of the show, at which time the following awards were made:

In the large garden class, first prize was given to Kurt O. Laubinger & Sons, Inc., Macedonia, O. The winning display had a background wall of natural stones. A garden of pink hyacinths and white azaleas bordered a lawn. Creeping bent was contrasted with white gravel walks circling a round planting of red Hexe azaleas with tastefully placed statuary. Flowering dogwood and a fountain issuing from the wall gave the entire area a beautifully restful appearance.

Second prize in the large garden class was taken by Fred Schneider & Sons Co., Rocky River. Tall plants of colorful large-bloomed clematis were staked in front of a gracefully curving brick wall to form a background for a 4-square garden of floribunda Garnette, hybrid tea, Picture, Poinsettia and other varieties of roses. A cross-patterned grass path divided the four sections and was centered by a large antique sundial. Accenting each patch of roses was a tall rose tree.

Honorable mention in the large garden class went to the C. Merkel & Sons Co., Mentor, and Hirt's Greenhouse, Strongsville.

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Stoney Acres Farms, Warrensville Heights, took first prize in the medium-size gardens. A triangular lawn centered by a white birch tree filled in the front of a bed of Pink Sweetheart and Albert and Elizabeth azaleas, terraced in front of a brick patio. White wrought-iron garden furniture was backed by flowering crab apples, dogwood, flowering almonds and evergreens.

Second prize winning medium garden was shown by Hi-Way Nursery, Westlake, a new entrant in the show this year. An old-fashioned formal garden featured tuberous begonias with fibrous begonias, impatiens, fuchsias and gloxinias to add color. Included in the planting were Rex begonias, Firefly, Margaret Rose and Adeline. Adding to the charm of the garden was a brick patio covered by a white pagoda, the background containing 12-foot holly.

#### Honorable Mentions

Gali-Brooks Greenhouse, Beachwood Village, was awarded honorable mention in the medium garden class for a strikingly different planting—sunken gravel walks bordered by stone walls varying in height from one to two feet holding curved gardens of pink and white prunus and Albino tulips spotted by Alaska and Coral Bells azaleas. Edging the entire planting was low Japanese holly, while the area was accented by garden statuary. Drooping andromeda was used as an evergreen background.

Another honorable mention in the medium garden class was given C. R. Perkins & Sons, Westlake. This 800 square foot plot was backed by a white fence and planted in a geometric pattern using chrysanthemums in yellow, white, maroon and orchid.

Top honor in the small garden class went to the Jack Ellicott Greenhouse, Warrensville Heights, for a formal rectangular garden planted in pink Holiday and white Alaska azaleas. A wide green hedge of Japanese holly, cornered by globes of English boxwood, completed the foreground, while in the back was an ornamental iron fence with gates leading to the display of the winner of second prize, Parma-Schlegel, Parma, both gardens being of similar design and color. The latter used for a focal center a circle of Alaska and Holiday azaleas, on a triangular lawn, and both used forsythias for color in the background and sides.

Honorable mention in the small garden class was awarded Jim Beam, of Sunbeam Farms, Westlake. His old-fashioned display of English primroses and Basket of Gold alys-

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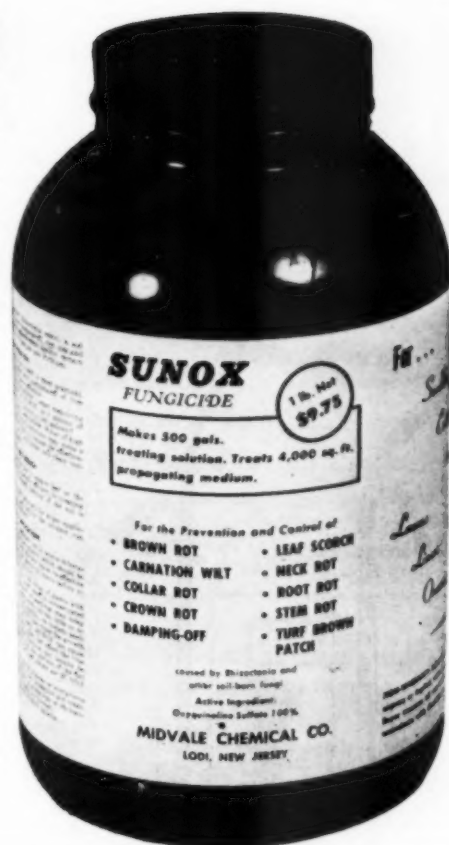
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sum was backed by rhododendrons and forsythias. Filling in, in front of the tall shrubs, were white tulips and azaleas. Here triangular sections presented an effective picture with primroses in white, yellow and pink, touched here and there with tones of gold.

The south end of the arena, directly opposite the main entrance, depicted a village green, planted to resemble an early New England scene. A scale-model white church and other buildings in three dimensions blended into a painted drop showing the remainder of a mountain village.

## CALIFORNIA FLOWER SHOW

The ninth annual California international flower and garden show opened March 15 in Hollywood park, Inglewood, Calif., where two floors of the famous race track's grandstand and clubrooms are converted annually into luxurious flower show quarters during the 9-day event. More of an "idea show" than ever before, it stressed small gardens and practical ideas for home gardeners this year when for the first time the words "and garden" were included in the official show title. Cosponsoring organizations were Southern

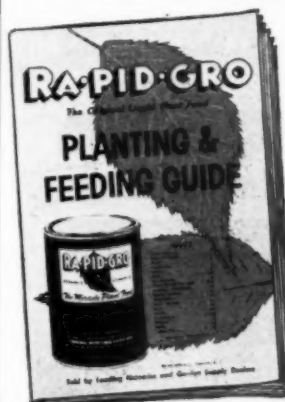
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A glamorous Hollywood preview showing, the night of March 14, attracted about 5,000 persons, who braved cool weather to have an early look at the show and to mingle with civic and film celebrities. Hosts on premiere night included J. Awdry Armstrong, of Armstrong Nurseries, Ontario, executive chairman of the

show; Edgar Bergen, motion-picture and television star, general chairman; William A. Rodman, general manager of the show, and officials of the Los Angeles chamber of commerce and Los Angeles Beautiful.

Continuous rain cut down opening day attendance, although 20,000 persons thronged the show the first Sunday, March 16. Fair weather alternated with rain later in the week.

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**E. C. GEIGER CO., P. O. Box 270, NORTH WALES, PENNSYLVANIA**

file slowly past the garden and nursery exhibits, which occupied about one-third of the seven and one-half acres of display space.

In the nurserymen's section a gold medal went to Armstrong Nurseries, which used a New Orleans setting for a patio and pool scene showing many of the firm's foliage plants, flowering azaleas and tree palms. A typical New Orleans white filigree balcony was used, and masked, life-size Mardi gras figures revolving on a turnstile added to the color in this exhibit.

### Oriental Garden

Rosedale Nurseries, Monrovia, showed a large Oriental garden and patio with pebbled walks, mirror pools and two complete tea settings, one outdoors and one on a raised lanai, an attractive setting for exotic foliages and Oriental statuary.

Ralph W. Smith Co., landscape firm, received the Manfred Meyberg sweepstakes gold medal for the outstanding landscape garden in the show. Richly flowered azalea bushes with blooms ranging from palest pink to deep crimson were dramatic in this extensive outdoor patio exhibit.

Softly changing lights, ranging in effect from bright noon to dusk, lent interesting aspects to the Henry C. Soto Corp.'s "Landscape in Fantasy," one of the largest exhibits in the show.

A special award, a gold medal offered by the International flower show of New York, was presented to Simpson's Garden Town for its modern home and garden exhibit.

The Eugene Germain memorial award was won by S. Kawakami, for his delphinium display.

### OPENS DALLAS CENTER

The Singing Hills Garden Center, a \$100,000 retail operation, was opened recently at 5250 Singing Hills drive in the Oak Cliff section of Dallas, Tex., by John Santerre, owner of La Reunion Fruit Farms & Nursery, Grand Prairie, Tex. Five years of planning and visiting garden centers in the United States and Europe preceded the actual construction of the center, which will be managed by Roy Santerre, the owner's son.

In addition to a full line of plants and garden supplies and equipment, the store features a pet supply section, a completely equipped clubroom for garden group meetings and a 200-car parking lot. Most of the nursery stock sold at the new center will be grown at the La Reunion Nursery, and a greenhouse is

## more fence profits

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*The Finest Fence You Can Sell!*

planned at the Dallas location for growing bedding plants.

Heading the various departments of the new establishment are Marcel Santerre, business manager; Robert Berry, Laszlo Pahany, and Gunter Meyer.

### FREE GARDEN CLINIC

A free clinic to aid local gardeners with their garden, soil and nursery problems was conducted Sunday, February 16, by the Smith & Moore Self Serv Garden Center, San Antonio, Tex. The public was invited to bring soil samples for analysis by a chemist, to discuss insect and plant disease control with William Jones, representative for Ortho insecticides of the California Spray-Chemical Co., Richmond, Calif., and to visit the nursery. An article in the editorial columns of a local newspaper directed attention to the event.

The business, a landscaping service and nursery, supply and gift sales center, is operated by A. J. Smith and Charles H. Moore. The extensive operation occupies three acres near a highway intersection.

JUSTIN J. HORICK, of Horick Fruit Farms, Aspers, Pa., is opening a garden center there.

### MORE SALES, QUICK AND EASY WITH NEW *Habitant* DECORATIVE UNITS...

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# Fire Ant Threat Told At Florida Pest-O-Rama

Florida nurserymen, who are just recovering from the onslaught of the Mediterranean fruit fly, are learning how to combat a threatened invasion by another pest, the imported fire ant.

Speaking at the third annual Pest-O-Rama held at Miami March 20, Florida's acting chief entomologist, Harold Denmark, described the origin and spread of the imported fire ant. Mr. Denmark used color slides to illustrate how the fire ants breed and spread, and he also showed some of the damage caused by these pests.

The fire ant is not new in Florida, having been found in two counties in the northern part of the state as far back as 1949. However, due to inadequate control, it has spread through about a dozen counties in north Florida, has a good foothold in the west coast area around Tampa and has even been discovered as far south as Miami on the east coast.

## Attacks Are Widespread

The fire ant feeds not only on seeds and young plants, but attacks young, unprotected animals, such as newborn calves, pigs and wildlife. Their sting is painful to humans, causing a boil-like fester, has been known to hospitalize people and has been the contributing factor in the death of at least three persons.

The value of lands in heavily infested areas is greatly reduced, because the ants interfere with the cultivation and harvesting of crops. They also build large mounds with crusty interiors capable of damaging farm machinery.

Mr. Denmark cited the movement of nursery stock as one of the means by which fire ants are spread, and the single discovery in Miami was in a container-grown plant at a Miami nursery.

A single fertilized queen ant is capable of starting and maintaining a new colony, and each hill produces over 250 queens, which leave their home colony on mating flights. As a rule these queens do not fly more than a few miles from their original colony, but they are easily transferred to other areas by trains, planes, trucks and other vehicles, particularly those moving horticultural stock.

The Florida state plant board and the Federal government have both recognized the severe damage caused

by this pest, and Mr. Denmark said that funds have been allocated and procedure initiated to begin a general eradication program in Florida. The procedure recommended by Mr. Denmark is immediate cleanup along roadsides and elimination of isolated and newly discovered infestations.

## Nurseries Quarantined

Nurseries where the ant has been discovered are immediately quarantined, and the state plant board surveys the area and treats within a radius of 100 feet. Nurseries are re-inspected at intervals from two weeks to 30 days, and the quarantine is not lifted until 30 days after the last find.

As a preventive measure, Mr. Denmark said that Florida nurserymen could treat their nurseries at their own expense and obtain a certificate of treatment, thus eliminating the possibility of a quarantine period.

In connection with this subject, a number of representatives of a newly formed trade group, the Horticul-

tural Spraymen's Association of Florida, attended the Pest-O-Rama.

Mr. Denmark said that while the Mediterranean fruit fly appears to have been eradicated, the state plant board will keep on the alert for this pest with 40,000 traps spread through the state. He cautioned that the spring weather may turn up new fruit fly discoveries and urged that nurserymen be on the alert to report any suspicious flies resembling the fruit fly.

## Nematode Problem

The battle against nematodes was discussed by Dr. Donald Coe, extension plant pathologist, University of Florida. He said that they have been known to cause plant diseases for 200 years, but most information about them has been developed within the past 15 years. He expects continued research to result in much better control in the near future. In addition to describing the nematode actions and symptoms of plants attacked by the pests, Dr. Coe gave a list of various methods of control. This list showed trade names and information regarding chemicals included in the different products mentioned.

Also on the program were representatives of the Shell Chemical Co.

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24 1-lb. cans  
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5 or more cases  
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10-ft. tube  
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1 pint to 1 quart  
per 100 gallons.

or 1 to 2 teaspoons per  
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Available in 1 gal.,  
5 gal. and 30 gal.

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1 to 2 lbs. per 100 gal.  
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Available in 4-lb.  
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4 to 6 oz. per 100 gal.

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He dropped in at our Booth at the Eastern Nurseryman's Convention back in January. Arrived with a grin and a greeting that was harder to take than a cancelled order.

"Wore one of those things out," he said, pointing to the Royer Shredder we had on display.

Now, no salesman can take a challenge like that laying down. I jumped to the bait.

"What was the trouble?" I asked. "Too small a machine for the amount of material?"

"No, son. Fact is, that Royer always was able to keep ahead of our operator."

"Don't tell me our welded angle-iron and steel plate frame gave you trouble!"

"Nope. Wasn't that. Hadn't anything to do with the heavy gauge steel plate hopper bolted to the frame, either."

"Have a flat?"

He shot me a disgusted look. "Son, mine didn't have those nice pneumatic tires."

He took hold of the tow bar and moved our light, compact display model. "You

folks sure designed portability into these machines, though. Makes them real easy to move to and around the work site."

"And they stay that way," I added. "These large roller bearings are packed with grease and sealed to keep out dirt. Heavy duty, too—not little wagon wheels."

The only thing left was the belt assembly, so I asked him the obvious.

"I wore out a belt or two in my time. But it sure takes a lot of runnin' to do it. Sure wish they made shoe soles out of that tough, resilient composition belting."

"And it sure is smart to mount those tempered alloy steel teeth the way you do. Really shreds the material, and that design prevents material from impaling, too."

"You know, I never had a tooth break. That spring-loaded retarding sweep prevents a lot of headaches."

"But," I asked, "why did you have to replace belts?"

"Son, nothing lasts forever. Bought that Royer back in '24. Really didn't wear out, though. It's just so doggone old it deserves to be retired."

He started to leave, shot another glance at the display model, and added...

"Have your local distributor come by and I'll give him my order for a new Royer. It's the best machine I ever bought."

Well that was the end of one of our favorite balloons. We always thought that Royers lasted forever. Now we say they *practically never wear out*.

Oh yes, we gave him a copy of our new Bulletin S-57. In eight pages we show and describe our complete line. There's one for every size operation, every need. Drop me a line and I'll rush one off to you today.

After you've looked them over, contact your local distributor (we'll tell you his name) and get a demonstration. We don't want you to buy a pig-in-a-poke. Compare, but not just original costs. Get yourself one of these Royers—the Shredders that *practically never wear out*.

**ROYER**

and the Virginia-Carolina Chemical Co., both of whom described the use of fumigants and drenches made by their companies for the control of nematodes.

Dr. S. H. Kerr, entomologist from the agricultural experiment station, spoke on the use of insecticides in control of lawn pests.

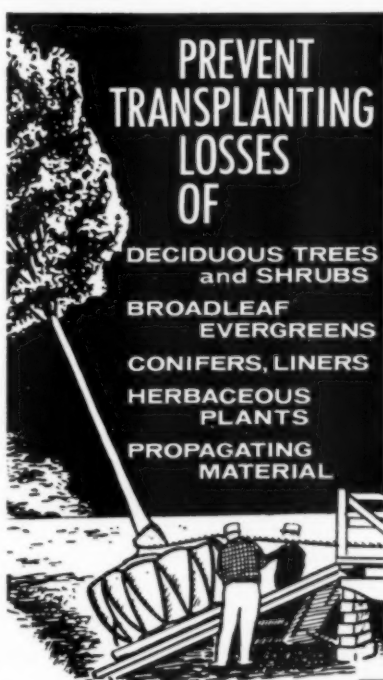
Another entomologist, James Brogdon, also from the University of Florida, spoke on "New Insecticides and Their Uses on Ornamental Plants." Mr. Brogdon recommended the use of carefully selected materials for the particular pest or disease involved. He said that a "shotgun" spray mixture involving a combination of several ingredients is all right for the homeowner with a few plants, but that commercial users would find such a method too expensive to be practical.

Mr. Brogdon also cautioned Floridians about false hopes that the extremely cold weather had killed pests. He said that many of them were able to survive at temperatures as low as 25 degrees below zero, and he added that the cold killed off a great many predatory insects who prey on harmful insects.

The Pest-O-Rama, previously known as the south Florida pest control field day, was the first phase of this year's short course for nursery-

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men. The second phase will be a 2-day session in August, at which time subjects related to plant propagation will be covered.

This program, planned by assistant county agent Douglas Knapp, was held under the auspices of the Dade county agricultural department and the Florida agricultural extension service. It was officially sponsored by the Florida Nurserymen & Growers Association, the South Florida Garden Supply Association, the Horticultural Spraymen's Association of Florida and the Horticultural Study Society of Dade County. All those organizations attended the Pest-O-Rama in lieu of holding their regular March meetings.

### MAKING BETTER CUSTOMERS

[Continued from page 17]

Almost two thirds of the homeowners chose "homes would look unfinished without trees and shrubs" as one of the most important reasons for landscaping.

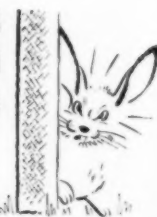
#### Wide Acceptance

So much for the appeals of landscaping. There is no doubt that landscaping has general acceptance among homeowners in Pennsylvania. Homeowners in widely different types of residential areas seem to have what might be called almost a built-in desire to landscape. This is one of the major assets of the nursery industry. Furthermore, homeowners believe that nurserymen should be the ones to supply them with trees and shrubs. Eighty-three per cent recommended nurserymen as a source of landscaping material and 2 per cent said "satisfied; service good" when they were asked how nurserymen can better serve homeowners.

On the other side of the picture, what are the obstacles to greater use of trees and shrubs? Why are homeowners not now the better customers it is believed they can be? The more important of these obstacles were the concept of fullness of plantings; financial considerations, including prices of plant materials; the time involved in landscaping, and the lack of knowledge about various aspects of landscaping.

"Have all the trees and shrubs that are wanted" was the reason most frequently chosen by homeowners as among the important reasons for not using more trees and shrubs. It also was the reason most frequently given by those who said they did not plan to make future plantings. Of particular importance here is the fact that the properties of 40 per cent of this latter group, who

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said they did not intend to make future plantings, were judged by the interviewers as not fully planted. In other words, here is a substantial part of the market shut off because of apparent satisfaction with limited plantings. If new housing construction does not continue to absorb most of the nursery industry's production, this obstacle of concept of fullness of planting would seem to be one that will warrant close attention by many nurserymen.

### Money a Problem

Before the study was begun, it was realized that cost was a likely major problem. Thirty-five of the homeowners checked "The kinds of trees and shrubs we want are too expensive" as among the most important reasons for not using more. However, approximately the same percentage of respondents in the different types of residential areas chose this reason. It was as important for homeowners with higher-valued homes as for those in the lower-valued homes. Financial considerations were also important reasons why intended plantings had not been made.

There was little doubt that time or the concept of time involved in landscaping was an important obstacle to planting. "Do not have the time" was chosen by 37 per cent as

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3-ft. lengths . . . . .	\$4.00	70 lbs.	\$3.00	135 lbs.
4-ft. lengths . . . . .	5.25	95 lbs.	4.25	155 lbs.
5-ft. lengths . . . . .	6.50	135 lbs.	5.00	180 lbs.
6-ft. lengths . . . . .	8.50	160 lbs.	6.50	220 lbs.

Dressed stakes are  $\frac{7}{8}$  x  $\frac{7}{8}$  in. Rough stakes are relatively all of a size, but do vary somewhat in width.

All prices F.O.B. Atlanta.

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NO SPECIAL TRAINING REQUIRED**

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- Potting Soil
- Peat Moss
- Fir Bark for Orchid Culture
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Balanced plant food for African Violets and all potted plants. Carried in 4-oz. and 8-oz. bottles.

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Phone: WEBster 9-3448

one of the most important reasons for not using more plant material. Answers indicating a lack of time were given by a large proportion of homeowners as reasons why intended plantings had not been made. This matter of time implies conflict of interest. There is undoubtedly a lot of truth in the saying that we find time to do what we want to do. Interests which competed with landscaping for the homeowners' time were related activities of lawn, yard or garden and repair jobs about the house.

Lack of knowledge about landscaping showed up in many aspects of the study. Sixty per cent of the homeowners indicated a need for information on landscaping when they were asked, "Do you need information about any particular phase of landscaping?" Most important needs concerned control of insects and diseases, pruning, varieties to plant and use of fertilizer. Opinions on how nurserymen could better serve homeowners indicated particularly a need for more advice on landscaping problems. Homeowners clearly indicated that they look to nurserymen for this information. They referred to the problem of plants' getting out of hand or growing too large for their location. This problem directly reflects the customer's need for the right cultural information at the right time.

**Four Chief Obstacles**

The four most important obstacles, then, were wrong concept of full planting and a feeling of lack of money, time and knowledge. Obviously these obstacles are related. It would seem that they are related in a particular way, a way that greatly reinforces their strength. Apparently the most important overall obstacle to increased use of trees and shrubs arises from the strong desire of most homeowners to initiate and complete desired landscape planting as soon as possible after moving into the newly purchased home. That is, many homeowners are anxious to acquire landscaping at a time when the cost of plant material must be added to the investment of a newly purchased home and perhaps to the expense of an expanding family. Sixty-one per cent said they would recommend that friends plant immediately, or during the first year, and 6 per cent said to plant before moving in. Twelve per cent said to plant "as soon as they can afford it." So the pressure is on to landscape as soon as possible. Consequently, in view of limited finances, the kind of landscaping desired by homeowners and the kind the industry would like

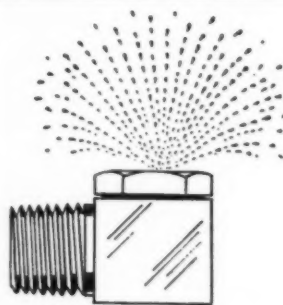


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to supply may be sacrificed in favor of less expensive and less satisfactory plants to fill in.

#### Early Approach

It is likely that prompt attention by nurserymen to homeowner needs and problems during the important early years after moving in could do much to sustain interest in landscaping and counteract the tendency for a concept of fullness of planting to develop prematurely. It is this situation that probably caused some respondents to say "I have enough trees and shrubs" when most people would agree that the property would be benefited by additional plants.

As indicated earlier, consumers look to nurserymen for help with their problems. Here are some typical responses of this nature to the question, "How can nurserymen better serve homeowners?" Sixty-three homeowners asked for more advice on trees and shrubs. Thirty-seven asked that nurserymen check to see what people need or want, and 19 said nurserymen should come back and check on jobs. Thirteen said that nurseries should be better staffed with trained men.

To be more concrete, the suggestion is that nurserymen who wish to expand their retail sales should help their homeowner customers with their landscaping problems. Here nurserymen have a merchandising technique that seems sure in the long run. They have the training, knowledge and experience that homeowners need and want. In a survey of nurserymen last summer, many reported that the yellow page section of the telephone directory was their best single advertising medium. Just being listed as a nurseryman brought first-time customers to them. Helping customers with their landscape problems and being interested in them seem the best ways to keep customers.

#### Customers Desire Information

There is at least a suggestion that efforts by nurserymen to inform homeowners have a good chance for success. When asked to select the phase of landscaping on which they needed information, homeowners selected "how to plant" least often, probably because information on how to plant trees and shrubs is often supplied with individual purchases of plants.

The kernel of this study on marketing ornamental nursery products is this: To make better customers of homeowners, one should know what the appeals are and how widely they are shared by the homeowner

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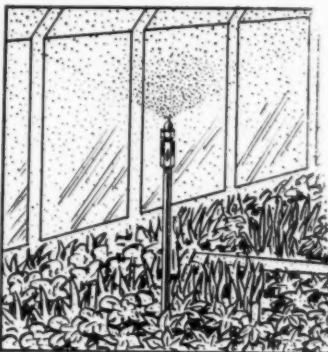
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market. Although most nurserymen have regarded the reasons most frequently selected by homeowners as good ones for marketing, the concrete information that they are indeed the important ones should aid the trade in developing advertising and other sales promotion activities.

Since most persons already have a desire to landscape, the appeals given are probably most important in overcoming obstacles often cited by homeowners as reasons for not using more trees and shrubs. Homeowners who have not yet fully planted represent a large sales potential. More than half of the sample, particularly among those in the newer residential and rural nonfarm areas, indicated they expected to make further plantings. Through the use of acceptable appeals, these homeowners may be converted to customers before they become satisfied with less than a complete planting. Correctly used, these appeals should provide a potent source of strength to nurserymen who wish to expand their market.

## SPECIMEN TREES, SHRUBS

[Continued from page 18]

coming out almost at right angles and then sweeping upward. When young, it has a formal, pyramidal shape and, by maturity, achieves a magnificent columnar form. Mr. Gerling recommended it for situations requiring a formal, columnar tree, especially under adverse conditions.

The columnar form of sugar maple, called *Acer saccharum* columnare Temple's upright, was described as a multiple-branched, narrow form desirable for its resistance to storm damage and for its fall color. Mr. Gerling recommended it for planting in situations where the streets or tree belts are narrow or where there is a shallow building setback. The fourth tree he discussed was *Acer nigrum fastigiata*, the upright form of black maple, which is regarded as a good street tree, superior to sugar maple, at Rochester.

The last of the upright forms mentioned by Mr. Gerling was a variety found by Mr. Slavin, *Tilia americana fastigiata*, upright American linden, which was recommended as an attractive lawn specimen for large areas. He also suggested wider use of *Tilia cordata*, the European little-leaved linden, and *Tilia petiolaris*, the silver weeping linden, which grows only to a height of about 40 feet and therefore should find a place in today's limited-area plantings.

Mr. Gerling stated that the Aes-

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culus turbinata, Japanese horse chestnut, with its attractive form, also makes an effective street tree, and is no more a nuisance in regard to fallen petals than is a magnolia. Paul's Scarlet hawthorn, *Crataegus oxyantha pauli*, was also mentioned as a suitable street tree.

An attractive group of *Syringa amurensis japonica*, Japanese tree lilac, in full bloom in late June was shown. As an indication of their hardiness, Mr. Gerling stated that the plants withstood a temperature of 21 degrees below zero. The large, fragrant, creamy-white flower heads may reach a length of 18 inches. Another flowering tree recommended was *Sophora japonica*, the Chinese scholar tree or Japanese pagoda tree, with its attractive foliage and white flowers in August.

### Interesting Ornaments

Three other interesting ornamental trees that the speaker considers deserving of more use are the turkey oak, the Constantinople hazelnut and the katsura tree. The turkey oak, *Quercus cerris*, may reach a height of from 60 to 70 feet, is hardy and is one of the last trees to change color in the fall, with many of the leaves persisting all winter. Mr. Gerling considers the Constantinople hazelnut, *Corylus columna*, a beautiful tree because of its pleasing form, its attractive dark green foliage and light gray bark and its clusters of fruit. As a recommendation for *Cercidiphyllum japonicum*, the katsura tree, he pointed out the attractive heart-shaped leaves, which are purplish red when unfolding in the spring and change to yellow in the autumn.

Mr. Gerling called attention to the

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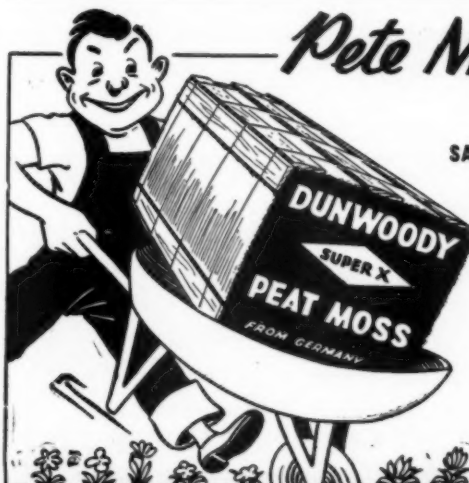
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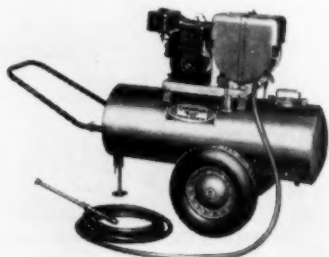
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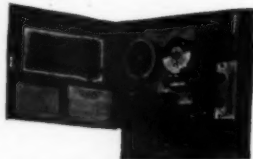
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fact that most spruces in his area are affected by spruce gall and have a tendency to grow too fast. However, for those who desire some sort of spruce, he suggested the golden-tipped Norway, *Picea abies finedensis*, which shows a golden color on its branch tips for about three to five weeks in the spring and then turns green. The last tree shown was the gold-tipped smooth-leaved elm, *Ulmus carpinifolia wredei*. The leaves on the outer two or three feet of the branches are yellow and retain their color all season.

### Better Evergreens

The first 10 plants shown and described by Mr. Gerling in his second day's talk were little-used narrow-leaved evergreens. He stated that *Abies lasiocarpa arizonica*, a variety of Rocky mountain blue fir, grows more slowly than most firs in the east and merits wider use as a specimen. Among its desirable characteristics are outstanding foliage and the absence of the gall and canker problems found on many evergreens. *Abies cephalonica apollinis*, the Apollo Greek fir, was recommended as an attractive specimen, well suited to the New York area. *Abies nordmanniana*, the Nordmann fir, although a larger-growing tree, makes an excellent formal specimen fir, being hardy and growing well in the northeast.

Two forms of *Pseudotsuga taxifolia*, Rocky mountain Douglas fir, were shown, the first being Mr. Slavin's pyramidetta, a formal, compact specimen. At this point Mr. Gerling urged all nurserymen to take advantage of what facilities each may have to make more desirable plants such as this one available. The other form shown was a dwarf Rocky mountain Douglas fir, *Pseudotsuga taxifolia pumila*, that had reached only 12 inches in height at approximately 36 years of age.

The first of four pines recommended by Mr. Gerling was *Pinus nigra pyramidalis*, the pyramidal black pine, a formal hardy type with a rich dark green foliage and attractive staminate flowers. Another form of black pine, named by Mr. Slavin *pinus nigra hornibrookiana*, had grown to a height of only three feet and a width of four feet after 38 years and was originally propagated from a witches'-broom. Also shown was a dwarf form of mugo pine, *Pinus mugo slavini*. The fourth pine shown was a slow-growing, globe-shaped seedling from a dwarf Scotch pine, not yet named or available in quantity. It seems particularly well adapted for rock garden use.

The last of this group of narrow-



leaved evergreens was an attractive dwarf form of hemlock, *Tsuga canadensis pumila*, which, though 40 years old, was only seven feet high.

### Eight Unusual Maples

Mr. Gerling showed slides of, and commented on, eight unusual types of maple. A selected form of *Acer rubrum globosum*, named Spectacular, has the desirable characteristics of a globular head; exceptional flowers, which are larger and more beautiful than those of most red maples; attractive gray bark, and a tolerance of sandy soils. For those who prefer a well-shaped tree with foliage that is yellow in spring, changing later to green, Mr. Gerling suggested *Acer pseudoplatanus worlei*, the yellow plane tree or sycamore maple. This tree is extremely hardy and will grow on poor soil.

Another maple upon which he commented was *Acer cappadocicum*, coliseum maple, a rather light-branched, well-shaped tree with dark, greenish-blue foliage. A golden form of Norway maple, *Acer platanoides aureomarginatum*, was shown. Mr. Gerling pointed out that the leaves of this novelty specimen type of maple are edged with a definite yellow color, whereas the variety variegatum is described in Rehder's "Manual of Cultivated Trees and Shrubs" as having white blotches on the leaves.

The last four maples shown and discussed were much smaller types, more suited as specimens around today's smaller home grounds. For *Acer griseum*, the paperbark or gray maple, he stressed the double attractions of delicate, compound leaves, which turn an attractive fall color in some areas, and the rich cinnamon-brown, papery bark, which is exfoliating, in a manner similar to that of paper birch. The second smaller tree discussed was *Acer tegmentosum*, the Korean striped or Manchu striped maple, which reaches a height of about 25 feet in 40 years.

Describing it as being similar to the native *Acer pensylvanicum*, which does not thrive in open locations, Mr. Gerling pointed out that this tegmentosum species does not require shade for its roots nor protective covering for its top portions. Other desirable characteristics include hardness, a beautiful green and white-striped bark and attractive foliage that turns a clear yellow in the fall.

Another small maple suggested for specimen planting was *Acer ginalla*, the Amur maple—a hardy tree reaching a mature height of about

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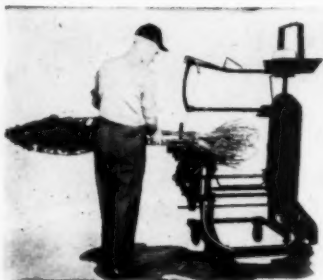
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20 feet and having good summer foliage that turns a brilliant red in autumn. Mr. Gerling mentioned a selected form having red samaras during the summer.

He also showed a picture of a section of a plant having witches'-broom, which, when propagated, resulted in a plant that grew at about a normal rate for the first season, but then grew slowly, becoming a compact, small-leaved *Acer ginalla*. The last of the smaller maples shown was *Acer senecaensis*, a Slavin hybrid, developed from *Acer saccharum* and *Acer leucoderme* (chalk maple), that has the good fall color of the former, the light gray bark of the latter and is said to have a mature height of about 25 feet. *Sorbus alnifolia*, Korean mountain ash, was recommended as being extremely hardy and apparently immune to borer attack and having attractive yellow fall foliage.

### Fastigate Species

Four fastigate plants were suggested for use as specimens by Mr. Gerling. *Carpinus caroliniana fastigiata*, a Slavin introduction of upright Carolina hornbeam, has proved to be hardy and practically immune to most insects and diseases and has a good orange-yellow fall color. *Quercus robur fastigiata*, pyramidal English oak, is attractive, hardy, matures at about the height of a 4-story building and can be propagated from seeds, with a high percentage of the seedlings coming true.

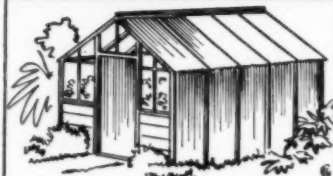
Mr. Gerling judges the following two evergreens the best upright forms for use in the northeast: *Pinus sylvestris fastigiata*, pyramidal Scotch pine, which makes an excellent, hardy, narrow, formal accent plant, and *Thuja occidentalis fastigiata*, an upright form of American arborvitae, which has a stiff central leader that is not affected by snow and sleet.

As a plant for use with modern architecture, Mr. Gerling suggested *Cornus controversa*, giant dogwood, with its unusual horizontal branches and dense foliage which changes to a handsome red in the fall. He noted the similarity of this plant to the native *Cornus alternifolia*, except that the species *controversa* is more definitely a tree type.

### Malus Introductions

Among the 11 small flowering trees and shrubs shown and discussed as specimens were two Slavin crab apple introductions. *Malus Katherine*, a hybrid seedling, was described as a magnificent, low-branching, dome-headed crab apple, bearing an abundance of light pink double flow-

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ers. The other colorful Slavin introduction was *Malus ioensis fimbriata*, the fringed-petal prairie crab apple, which also has double pink flowers.

Continuing, Mr. Gerling noted that the first deciduous tree to leaf out in the spring is the European bird cherry, *Prunus padus*. It can be kept at almost any desired height; it produces an abundance of small white flowers similar to those of the native chokecherry, and the small fruits provide food for birds. The subject can serve for a small specimen, as a shrub in a hedge or for holding soil on a bank. *Prunus serulata lannesiana Shirotae*, the beautiful double white-flowering Oriental cherry, and *Oxydendrum arboreum*, the white August-flowering sorrel tree, were again stressed by Mr. Gerling, this time as lawn specimens for smaller home grounds.

Of the witch hazels, Mr. Gerling prefers the Chinese type, *Hamamelis mollis*, which in late February or early March bears fragrant orange to yellow flowers that are about twice the size of other species'. A red-flowering Chinese witch hazel also was shown. He noted that careful selection of plants to be propagated by cuttings is necessary, since some plants have a tendency to hold leaves throughout the winter, which detracts from the effectiveness of the blossom. The fall color of the leaves varies from pure yellow to red.

*Fothergilla major*, the white-flowering large fothergilla, was recommended as an attractive shrub for use on small home grounds. Mr. Gerling also commented on a specimen tree seldom seen as far north as New York, *Davidia involucrata*, the dove tree, which, although apparently hardy at Rochester, has only produced one crop of flowers in 15 years. The yellow flowers, consisting of two large, winglike bracts, one on either side of a ball formed by the stamens, give the plant its name.

Another seldom-used flowering tree mentioned was *Magnolia macrophylla*, the big-leaved magnolia, which may bear leaves up to 30 inches long and fragrant white flowers as large as 12 inches in diameter. He noted, however, that this magnolia requires some protection from winter sun and winds when grown in the northeast.

*Magnolia sieboldi*, the Oyama or Japanese magnolia, is considered by Mr. Gerling to be the aristocrat of the magnolias. As desirable characteristics he stressed the tree's small, attractive leaves and appealing white flowers with magenta stamens, which are produced over a period of several weeks. Mr. Gerling ended his talk



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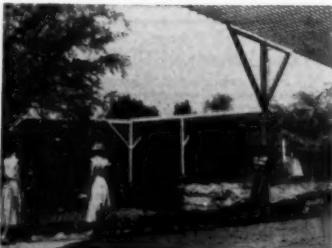
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with comments on Daphne mezereum, February daphne, an attractively foliated small shrub, producing fragrant, rosy-purple blossoms about mid-March and bright red fruit in early summer.

### CONTAINER MEDIA STUDY

[Continued from page 15]

ture by means of a ribbon mixer. The fertilizer mixture is composed of 10 pounds of dolomite lime, five pounds of gypsum, three pounds of organic nitrogen and one pound each of potassium nitrate and treble superphosphate. The mixture is then steam sterilized. Cuttings or seedlings grown to liner size are then potted into this mix contained in the so-called 1-gallon metal pot.

As the plants grow, frequent light feedings are applied to maintain a proper nutrient balance within the medium. At 1 to 2-month intervals, depending on the prevailing weather conditions, plant and season of the year, additions of one to two teaspoonfuls per container are made of 3-1-2 fertilizer composed of urea-formaldehyde or hoof and horn blood meal, superphosphate and sulphate or muriate of potash. It is common for the nitrogen supply to be depleted first, the potassium next and then the phosphorus. The frequency of watering and fertilization, of course, will vary considerably with existing weather conditions, as well as with the part of the country in which the nursery is located.

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The Ohio mix is composed of equal volumes of silt loam soil, bank sand and German peat. A soluble fertilizer solution, such as a 20-20-20 mixture, is applied at 3 to 4-week intervals during the growing season, by means of a Hozon applicator. The fifth feeding is composed only of nitrogen and potassium, while the sixth and final feeding of the year is composed only of soluble nitrogen.

Many of the Texas growers are using a 50-50 mixture of soil and peat. The stock is fertilized at 2-week intervals, dry and wet fertilizer additions being alternated. Proprietary soluble fertilizer mixtures, such as Ra-Pid-Gro, are used for the wet application, while nitrate of soda or ammonium sulphate is used as the dry form of fertilizer. The soil that is being used in the original mixture is high in potassium, and for this reason it is not necessary for the grower to add a potash carrier at the time of dry feeding.

Clifford Corliss, Gloucester, Mass., describing his procedure for growing ornamentals in Cloverset pots, noted

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that it was desirable to include pea gravel in the potting medium, since the soil type in his area is heavy. Under these circumstances he has found that a mixture composed of one cubic yard of pea gravel, two cubic yards of loam (on the clay side) and two cubic yards of peat was about optimum for plant growth. To this mixture are added 50 pounds of rock phosphate, 100 pounds of magnesium lime and 20 pounds of superphosphate. The entire mixture is then sterilized. Finally 10 pounds of a complete 7-7-7 fertilizer is added just prior to canning. Two-year, bed-grown plants are used in the potting operation. After the plants have started growth in the spring, approximately one tablespoon of 7-7-7 fertilizer is added to each pot. Every three weeks a 20-20-20 water-soluble fertilizer is applied throughout the growing season.

#### Methods and Materials

The present study was undertaken to determine if deciduous ornamental plants could be grown successfully in lightweight media. This necessitated an investigation of fertilization practices, shipping procedures and planting methods.

Two deciduous shrubs and one deciduous tree, each representing a fairly large group of plants handled by nurserymen, were selected for study. *Lonicera tatarica rubra*, 12 to 18 inches; *Forsythia intermedia spectabilis*, 18 to 24 inches, and *Cercis canadensis*, two to three feet, were potted into each of three media between March 14 and March 25, 1957. Plants were cut back to approximately 12 inches at the time of potting. Thirty-two plants of each of the three species were placed in Plantainers lined with 1½-mil polyethylene bags containing a mixture of 50-50 sand and hypnum peat. A similar number of plants was placed in a mixture of 50-50 peat and perlite and 50-50 by volume peat and ground sphagnum moss.

In table 1 (page 14) are shown the pH values of the various materials used in preparing these mixtures. For these trials use was made of perlite, which had been purchased some time before and which was of higher pH than is desired for a mixture of this type. Material recently obtained was not of such high pH.

#### Feeding Tests

The polyethylene which lined the 96 fluid ounce Plantainers was punctured at the points adjacent to each of the four drainage holes at the base of the container. No fertilizer was added to the medium at the

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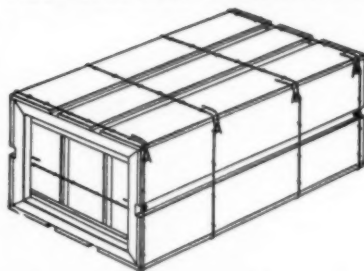
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time of potting, since it was desirable first to determine the nutritional level in each type of medium, as well as the fertilization necessary to keep the plant in active growth.

These plants, after potting, were then moved to a plastic greenhouse for forcing. Temperatures varied between 50 and 60 degrees Fahrenheit at night, while the daytime temperatures were governed by the amount of sunlight which existed. Eight plants each of the three species in three media were then fed at three different fertilizer rates, governed by the frequency of watering. Eight plants which served as the check were not fed during the forcing period, while the series of eight was fed every time the plants were watered, every other watering and every third watering.

The fertilizer solution applied was composed of the following chemicals: Two ounces potassium nitrate, one and one-half ounces magnesium sulphate, two ounces calcium sulphate, one-half ounce diammonium phosphate, one-half teaspoon chelate trace minerals, 25 gallons water.

This resulted in a solution with the following nutrient concentrations:  $\text{NO}_3$ -300 parts per million,  $\text{NH}_2$ -50 ppm, K-150 ppm, Ca=150 ppm, P-25 ppm, Mg-50 ppm, trace

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minerals-10 ppm, K-150 ppm. This solution has a specific conductance of 280 (2800 actual) and a pH of 7.4. The college water used during the course of this experiment was also pH 7.4, with a specific conductance of 95.

All plants were grown in a plastic greenhouse March 26 to June 6, at which time they were removed to a lath house giving 50 per cent shade. No fertilizer application was made between June 6 and the end of the growing season, since it was desirable to determine how long the fertilizer treatments would hold the various plants under these growing conditions. Final soil and leachate tests were taken October 9, 1957, to determine nutrient levels within the various media.

### Forsythia Packaging

In order to test methods for packaging and shipment of this type of stock only Forsythia intermedia spectabilis grown in the peat-perlite and sphagnum-perlite mixtures was selected for trial. Four methods were tested, and there were four replications of each test. Shipments consisted of a plant in a test package and a check plant in a polyethylene root bag. The test packages, illustrated on another page of this issue, were as follows: (1) Box, plant top open, (2) box, plant top sprayed with Wilt-Pruf, (3) box, plant top in a polyethylene bag and (4) polyethylene-kraft paper over all.

Plants were packaged on June 8, 1957, allowed to stabilize in storage at a temperature of 65 degrees F. for four days and then shipped to Shenandoah, Ia. Plants were received by the Henry Field Seed & Nursery Co. June 13 and stored at a temperature of 40 degrees F. until the time of evaluation on June 17. The plants were then returned to Ames by car and field planted on June 18, under irrigation. Final field performance records were taken October 2, 1957.

### Study pH Values

In order to determine the final pH values of the various mixtures, it was necessary to allow the media to stabilize before sampling. Final readings indicated that the pH value of the peat and sand combination was 7.2; that of the peat-perlite mixture, 7.7, and of the sphagnum-perlite, 6.7. From the standpoint of pH alone, then, the sphagnum-perlite mixture was most desirable, since it is commonly accepted that a pH of 6.5 is about optimum for the growth of most plant materials.

It was also interesting to note the effect of the perlite on the final pH

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readings of various combinations in which it was used. Apparently, perlite possesses considerable buffering capacity, since in equal volume with sphagnum moss (pH 4.1) the final pH was 6.7, while in combination with peat (pH 6.1) the pH value rose to 7.7. This is quite significant, since the final pH of the medium, regulated by alkalinity of the perlite, will be of considerable importance in growing ericaceous and evergreen plant materials. Under acid titration, with hydrochloric acid, perlite showed a rather high buffering and a fast recovery action.

### Accumulation of Salts

A sphagnum-perlite combination is almost inert as concerns available nutrients. However, since sphagnum moss has considerable absorptive capacity, it was important to determine how much residue it would hold, as well as what absorptive capacity it has for such elements as phosphorus, potassium, calcium and magnesium. In the peat-sand and peat-perlite mixes, it was apparent that the peat moss supplies small amounts of calcium and magnesium, as well as a medium amount of available and reserve nitrogen.

From leachate tests taken June 1, at the completion of the forcing period in the greenhouse, it was obvious that the continued use of a complete nutrient solution every watering would result in the excessive accumulation of soluble salts. This was particularly so in the peat-perlite and peat-sand mixtures. Although the plants did not show any signs of toxicity at the termination of the feeding period, another one or two weeks probably would have been sufficient time for the plants growing in these two media under a continuous feeding program to be injured.

In general, the accumulation of nutrients was proportional to the frequency of application. Mixtures containing peat, naturally, accumulated higher nitrogen reserves than did the medium containing sphagnum, since peat contains some natural reserve. Although the application of fertilizers every other watering resulted in optimum nutrient levels during this forcing period, it is believed that there would be an excessive accumulation of soluble salts by the end of one full growing season.

### Forcing Growth Records

At the time fertilizer applications were terminated, in June, growth measurements of individual plants in the various media were recorded. Tests were made of the plants in three media — sphagnum-perlite,

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peat-perlite and peat-sand—with fertilizer applications every third watering, every second watering and every watering. Check plantings of each type of plant received no fertilizing. The results of the test were recorded in the average number of breaks per plant, the average length of break and the average total growth per plant.

Mixtures composed of peat and perlite that were fertilized every other watering gave the optimum results with *Forsythia intermedia spectabilis*. It is emphasized that this is on a short run basis, since the plants were forced and fertilized only for one and one-half months.

#### Unbalance Dangerous

Again, with plants of *Lonicera tatarica rubra*, peat-perlite mixtures fed every third and every other watering produced well-budded specimens with good growth.

The peat-sand mixture which was not fertilized produced plants which contained approximately the same amount of growth as those potted in peat-perlite mixtures. This indicates that just for forcing it is not imperative that the nurseryman pay too much attention to the fertilization program. Woody, deciduous plants of this type have what is often referred to as a luxury consumption, i.e., enough stored food and nutrients to carry them without feeding for a time. However, when considering the plants' performance over a long run, one should not allow the plants to grow without nutrients for any length of time, since, once deficiency symptoms appear, it is difficult to correct the unbalance.

With the exception of the peat-sand mixture, fertilized every other watering, little difference was observed between growth of *Cercis canadensis* in the various mixtures or at the various rates of fertilization. Purely from the packaging and shipping standpoint, then, it would seem desirable to produce this type of plant in a sphagnum-perlite mixture.

#### Forsythia Feeding

A test was also made of forsythia *intermedia spectabilis* in the commonly used mixture of peat and sand to test the influence of frequency of fertilization on its performance. A complete nutrient solution was applied from April 15 to June 6, 1957; no fertilization was applied between June 6 and October 2, 1957, when the plants were placed in the lath house. The plants were fertilized with every third watering, with every second watering and with every water-

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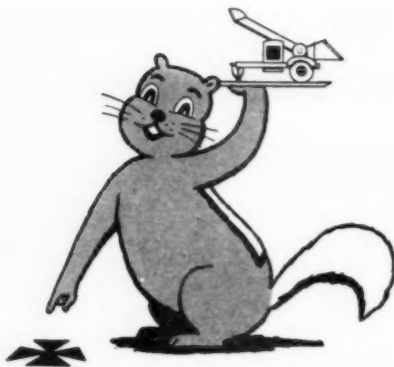
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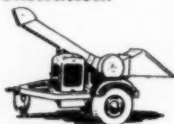


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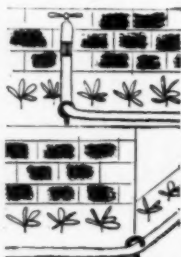
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ing, and check plants were grown with no fertilization. Results were recorded in average number of breaks per plant and in average total growth per plant.

The direct relationship between the frequency of fertilization during the forcing period and total growth was shown in the test results as follows: Unfertilized plants averaged 31.6 breaks and 119.2 inches of growth; plants fertilized every third watering averaged 33 breaks and 137 inches of growth; plants fertilized every second watering averaged 31.4 breaks and 152.4 inches of growth, and plants fertilized every watering averaged 34.6 breaks and 174.2 inches of growth.

A comparison of the plants' growth at the end of the growing season (October 2) with that which was on the plant at the time it was removed from the greenhouse and placed in the lath house (June 6) showed a loss at the end of the period. What happened, however, occurred as the result of placing containers snugly together in an environment of reduced sunlight. Breaks located on the interior of the plant, as well as those toward the base of the stem, burned off, leaving only the terminal, primary leaders growing. It can therefore be concluded that, if the nurseryman wants to produce a full, branched plant, he should plan to grow the plant in full sunlight and on a regular fertilization schedule. This same trend was observed with other media and with other plant material being grown.

### Field Performance

Replicated samples of forsythia growing in the peat-perlite and sphagnum-perlite mixtures, unfertilized and fertilized with every third watering, with every second watering and with every watering, were field planted June 18 to determine how the nutrient reserve would influence the establishment and performance of the plant after shipment and planting. Final measurements were taken October 2.

Plants growing in the sphagnum-perlite mixture, which received no fertilization, produced significantly less growth than did those plants in any media which had been fertilized. In general, regardless of medium, if the plants were fertilized, they performed satisfactorily after shipment and field planting. Those plants potted in soil and in Clover-set pots produced more breaks, but made approximately the same amount of growth as those grown in other media.

In order to test packaging techniques which could be used to facili-

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tate transfer of the foliated plant from the nursery to the customer, 32 plants in each of the two media were packaged in four ways, as outlined previously. These plants were packaged on June 8, held at 65 degrees F. for four days and shipped to Shenandoah, Ia. After one day in transit, the plants were stored for an additional four days at a temperature of 40 degrees F. They were evaluated on June 17, returned to Ames and field planted June 18.

In preparing the plants for shipment, observers noted that plants grown in peat-perlite mixtures were not pot-bound and as a result the mixture was runny. Since the polyethylene bag containing the medium was not rigid, extreme care had to be exercised in removing the plant and insert from the container. Later shipments in the fall of 1957 indicated that removal and ball breakdown of well-rooted plant materials are not problems. All plants grown in the 1-gallon metal containers were somewhat difficult to remove, since the polyethylene bag insert tended to catch on the inner lip of the pot. It is suggested that, if the plant is to be grown in the metal pot, the lip should be rounded off at the time of potting. This difficulty could also be overcome by growing the plants in the less durable Cloverset pots.

#### Other Factors

Packaging treatment No. 3, which made use of a polyethylene bag over the crown of the plant, was particularly difficult to seal around the base of multistemmed plants of the lonicera and forsythia types. When single-stemmed plants are to be packaged, the sealing of the bag at the crown will present no difficulties.

Packaging treatment No. 4 substituted the polyethylene-kraft paper for the cardboard box. It was observed that the original stems on stiff-caned plants, such as forsythia, gave excellent protection against breakage in transit. When plants contained a number of long growths which extended well beyond the terminal portion of the cane, some difficulty was encountered in packaging these plants without doubling over and breaking these new growths. In other words, if the polyethylene-kraft technique is employed, a plant with many short breaks is preferred to the plant with a larger number of longer new shoots.

#### Use of Wilt-Pruf

Packaging treatment No. 2 made use of a box containing a plant which had been sprayed with Wilt-Pruf. Although the Wilt-Pruf reduced the amount of water loss from the plant



July 16, 1957

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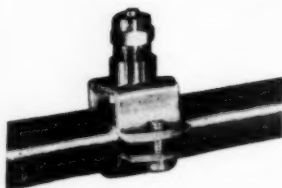
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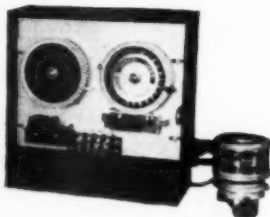
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American Nurseryman, 343 S. Dearborn St., Chicago 4, Ill.

(table 2, page 14), it did not perform so efficiently as did an over-all polyethylene bag or the polyethylene-kraft paper. This may be accounted for, in part, by the method used to apply the latex. In this case the material was applied by means of a 3-gallon Hudson sprayer. Not only was more of the material used than would have been had the plants been dipped, but the undersides of the leaves were quite difficult to coat adequately. For this reason, as well as the fact that this material is quite difficult to apply efficiently by means of this type of equipment (clogging is common), it is suggested that the plants be dipped, if this technique is tested further.

Plants enclosed entirely in sealed polyethylene bags lost the least moisture. Intermediate in moisture loss were those plants packaged in polyethylene-kraft paper, which was used to replace the box. Regardless of the method of packaging, all plants put on approximately three inches of growth during the 10-day holding and shipping period. This growth was not undesirable, but was readily visible, because of its chlorotic yellow color. There was no difference between packaging treatments and field performance since 100 per cent survival was realized.

#### Weight and Shipping Costs

Final packaged weight under each treatment and the average cost of shipment to zone 2 are recorded in table 3.

Although average figures are used in table 3, it was generally true that plants shipped in cardboard boxes weighed four pounds and over and consequently had to be posted for the 5-pound rate. Although the amount of moisture in the medium at the time of packaging was a factor, it was also apparent that the sphagnum-perlite mixtures generally were lighter in weight than the peat-perlite mixtures. It was commoner for the plants growing in the sphagnum-perlite mixtures to weigh less than four pounds when packaged than it was for plants growing in the peat-perlite medium.

In order to make comparisons between costs of materials used as well as packaging material costs, accurate records were maintained during the potting and shipping segments of this study. Because of the nature of the medium it was found that men potting in a sphagnum-perlite medium took one and one-half minutes to complete the operation, while requiring only 1.25 minutes per can using the peat-perlite medium and one minute to can a plant in a peat-sand

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medium. Medium material costs were figured on the basis of \$1.20 per bale of sphagnum moss, \$2 per ton for sand, \$10.93 per yard of peat and 37½ cents per cubic foot of perlite. The 8x4x18-inch polyethylene, .0015-mil liners were figured at a cost of 2.2 cents apiece, while the 1-gallon containers selling for 10 cents were depreciated over a 3-year period. Table 4 records the cost of canning forsythia in each of the three media. These figures, however, do not take into account labor involved in preparing the various media for potting.

#### Cost Items

The following items should be considered in the forcing operation: (1) Removal to the greenhouse; (2) watering; (3) feeding, labor and materials; (4) disease and insect control, labor and materials; (5) removal from the greenhouse to the packing shed, labor, and (6) packaging, labor. If the plants are to be grown for a period of one summer or a summer and winter before fall or spring shipping, the following additional costs need to be calculated before a final cost figure can be determined: (1) Removal from the forcing greenhouse to growing area, labor; (2) watering, labor; (3) fertilization, labor and materials; (4) growing area or lath house depreciation; (5) winter protection, labor and materials, and (6) overhead.

In the calculation of packaging material costs in table 5, the supplies were priced as follows: Box, 6½x6½x34 inches, 35 cents; Wilt-Pruf, 80 cc. per plant, .027 cents per plant for a 1:4 solution; .0015-mil polyethylene bags 8x4x30 inches, .03072 cents, and 12 square feet 60-pound 1½-mil polyethylene-kraft paper at .0996 cents. Cost of shipment was calculated for zone 2 on averages listed in table 3.

Using an average figure of 56 cents as the cost of placing the plant in the container and a cost of 75 cents for packaging materials making use of a box container, the nurseryman would have an expense of approximately \$1.31, plus growing costs, to market a foliated plant of this size. If polyethylene-kraft paper is substituted for the box container, a figure of 98 cents plus growing costs is estimated.

When one considers that a Clover-set pot grown plant of the same size is being marketed for between \$2.50 and \$3, that the bare-root mail-order specimen is selling for \$1.50 and the plant is wholesaling for 45 cents, it is conceivable that the mail-order nurseryman can market this type of plant profitably.

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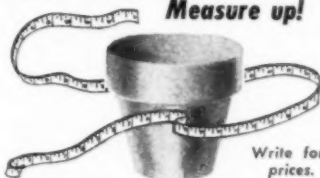
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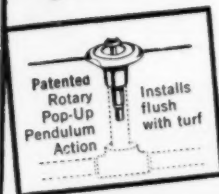
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## Missouri Campaign Renews City's Trees

One of the year's most significant tree restoration endeavors was scheduled to be celebrated at St. James, Mo., on the state's Arbor day, April 8, with the replacement of trees on the grounds of the St. James high school. Arrangements were made for school, town and state officials to join in the festivities commemorating St. James' "Forest City" campaign, a program of tree restoration throughout the town. Plans for the Arbor day celebration included rapid-fire removal and replacement of dead and diseased trees on the school grounds, a demonstration of modern forest fire-fighting techniques by the state conservation commission and the distribution of 475 small holly trees to St. James school children as the kick-off of a tree-growing contest.

The "Forest City" campaign honored in this program involves the removal of approximately 2,000 dead and dying trees and planting of over 3,000 sweet gum, holly and flowering crab apples. Its total cost expected to exceed \$50,000 in 1958, the project is a cooperative endeavor of the city of St. James, the St. James Utility Co., the St. James citizens committee and the James Foundation.

### Cooperative Effort

The campaign was initiated by a group of civic leaders headed by Mayor Oscar Glenn and superintendent of schools Louis Donati when it became apparent that several years of severe drought conditions had killed or deteriorated a large percentage of the trees lavishly planted by the town's pioneers and settlers. Ralph Hayes, chief administrator of the James Foundation, a trust fund established for community improvements in the town by one of its wealthy citizens, agreed to support the program on condition that the city and residents of St. James cooperate fully.

The local utility company put all its available equipment at the disposal of the city for the task of clearing away the 2,000 affected trees, some with trunks three and four feet in diameter, and the community furnished trucks, bulldozers, log loaders, chain saws and operators. Almost without exception, citizens of St. James agreed to the removal and planting program as established by a professional arboricultural survey.

The assistance of the foundation



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in procuring and planting trees was restricted to the public street frontages and adjacent private ground, while the citizens were asked to proceed on their own with interior plantings. According to Hugh Steavenson, Forrest Keeling Nursery, Elsberry, Mo., arboreal supervisor for the project, response of the townspeople has been most gratifying. He estimates the amount spent for nursery products by residents of St. James this year will be over \$10 per capita—10 times the national average for rural communities.

### Needs Surveyed

Mr. Hayes also insisted on an exhaustive survey to determine the most suitable varieties of trees for planting as well as the proper location of every street tree to be planted and a careful survey of every tree to be removed. Trees specified for planting—sweet gum, American holly and flowering crab apple—are all husky, nursery-grown trees, carefully balled and burlapped, with specifications conforming to American Association of Nurserymen standards. Furthermore, the sweet gum and holly were selected from parent stocks of proved adaptability to the St. James climatic conditions.

During these spring days at St. James, tractor loaders hoist logs and brush on trucks and roll through the streets to a waiting bulldozer that shoves the debris into a continuous bonfire. Each day two truckloads of trees from the nursery wheel into town to be placed in holes drilled with a 24-inch tractor earth auger. A 6-man planting crew plants, fertilizes and mulches as many as 200 trees a day. Truckloads of peat moss and ample chemicals are used to assure good growth.

### PAINESVILLE AWARD

The Painesville, O., junior chamber of commerce recently presented Theodore F. Carosello, manager and supervisor of Carosello Nurseries, Mentor, with its outstanding young farmer award. He is now eligible for state honors to be announced later by the Ohio junior chamber of commerce.

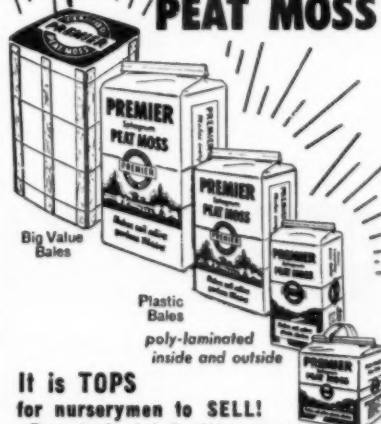
Mr. Carosello expressed appreciation that this recognition was timed with the centennial of the nursery industry in Lake county and attributed his selection to the educational program for farmers conducted in Lake county by the agricultural extension office and soil conservation service and the local nurserymen's group.

Mr. Carosello has been in partnership with his father and brother since

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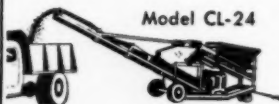
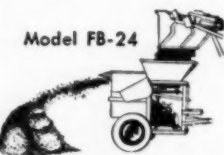
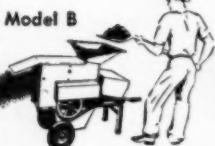
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1951. During that time, their nursery acreage has been increased from 25 to 150 acres, and new greenhouses have been added. Soil conservation practices were used in reclaiming land.

Judges for the outstanding young farmer award were F. G. Haskins, county agricultural extension agent; Thomas Anderson, United States soil conservation representative, and Sterling Averill, dairy farmer, last year's award winner. Homer Hollar, Horton Nurseries, Inc., Painesville, chairman of the award committee, presented Mr. Carosello with a plaque. M. B.

### FORM LANDSCAPE GROUP

A new organization, the Michigan Association of Landscape Architects, was formed recently at Lansing by a group of graduate landscape architects, whose objectives are better co-operation with state and other agencies in the field and increased prestige for the profession through public information on the services rendered by qualified landscape architects.

Elected president of the newly formed organization was Mrs. Jane Smith, Smith Tree Service, Inc., Lansing. Other officers are Lawrence Smith, Birmingham, vice-president; Donald VanderVeen, Mason, secretary; and Kenneth C. Runciman, Ann Arbor, treasurer.

The board of directors is comprised of Hrand Hampikian, Detroit; Carl Gerlach, Michigan State University, East Lansing; M. L. Thomas, landscape architect for the city of Lansing; Emerson C. Brown, Birmingham, and C. A. Boyer, chief of the plant industry division of the Michigan department of agriculture (honorary), Lansing. Plans were made for a summer meeting of the organization to be held at Kellogg Center, Michigan State University, August 12 and 13.

### HONORED IN SOUTH

At a recent meeting of the board of directors of the Louisiana Association of Nurserymen, Fritz Huber, Jennings Nursery Co., Jennings, and H. J. Poole, Sr., and M. A. Poole, formerly of Poole Bros. Nursery, Le-compte, were elected honorary life members of the L. A. N. and were cited for "their record of past work and devotion to raising the standards of the nursery industry of Louisiana and their high regard for service to the public"

The board also set the annual convention dates and decided topics for presentation at the L. A. N. summer short course.

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Per 10 Per 100  
2 to 3 ft. .... \$8.50 \$80.00

800 Charles X

300 Mme. Abel Chatenay

800 Mme. Florent Stepmann

800 President Grevy

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Each  
Per 100  
Norway, 5 to 6 ft., whips ..... \$0.75  
Norway, 6 to 7 ft., whips ..... .90  
Faassen's Red-leaved, 4 to 5 ft., whips . 1.15  
Schwedler, 6 to 7 ft., whips ..... 1.75  
Schwedler, 7 to 8 ft., whips ..... 2.00  
Variegated Norway, 5 to 6 ft., whips ... 2.00  
Variegated Norway, 6 to 7 ft., whips ... 2.50

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### PRICES EACH QUANTITY RATE

100	500	1000
35c	33c	30c

PINUS Mughus  
TSUGA Canadensis  
PICEA Excelsa Nidiformis

100	500	1000
30c	28c	25c

#### THUJA

Occidentalis Nigra  
Occidentalis Pyramidalis  
Occidentalis Wareana  
Occidentalis Woodwardi

100	500	1000
25c	23c	20c

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